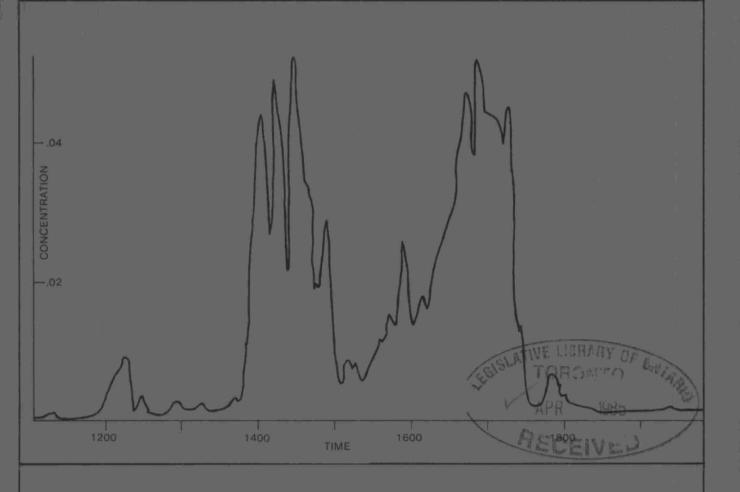
AIR QUALITY
MONITORING
REPORTS
1980

Volume 2

Report No. ARB-37-81 AQM





Ministry of the Environment Hon, Keith C. Norton, Q.C., Minister

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# AIR QUALITY MONITORING REPORT ONTARIO 1980

VOL. 2



Ministry of the Environment

Hon. Keith C. Norton, Q.C., Minister

Gérard J. M. Raymond Deputy Minister

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POLLUTANT - SULPHUR DICKIDE

UNITS - 0.01 PARTS/MILLION

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PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.1 PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR														- 0.	01 PA	RTS/MI	LLIO	N						
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PERCENTAGE OF DATA VALID - 90.7

PERCENTAGE OF DATA INVALID . 9.1

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

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PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTA	INT -	SULP	HUR D	OXID	E .						, 1	UNITS	. 0.	01 PA	RTS/MI	LLIC	N							
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PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 1.7 PERCENTAGE OF DATA UNAVAILABLE - 1.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE 467 UNIVERSITY AV WEST F2 WINDSOR MONTH - MAY STATION - SW NO 12008 22 23 16 17 18 19 20 21 12 13 HOUR 2 10 11 12 13 14 15 16 17 18 19 20 1100001000 0 21 22 23 24 25 26 27 28 29 30 2111000 101100040 0 31 2 MEAN

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGXIDE MONTH - JUN 467 UNIVERSITY AV WEST F2 WINDSOR 21 22 23 24 MEAN 9 10 12 13 15 20 ٥. 014320021 ٥ 11 12 13 14 15 16 17 18 19 0021 21 22 23 24 25 26 27 28 29 0110340220 013034 0 1.0 MEAN

PERCENTAGE OF DATA VALID - 96.1

PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

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	ST	ATION	· SI	NO NO	12008	ſ	467	JNIVE	RSITY	AV W	EST F	NIW S	DSOR			MO:	NTH -	JUL	80						
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PERCENTAGE OF DATA VALID - 84.9 PERCENTAGE OF DATA INVALID - 14.4

PERCENTAGE OF DATA UNAVAILABLE . 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

	S	TATIO	N - S	W NO	1200	8	467	UNIVE	RSITY	AV W	EST F	WIN S	DSOR			MO	NTH -	AUG	80							
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PERCENTAGE OF DATA VALID - 88.4 PERCENTAGE OF DATA INVALID - 11.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - SEP STATION - SW NO 12008 467 UNIVERSITY AV WEST F2 WINDSOR 24 MEAN 1.1 HOUR 0 2 0 0 0 - 0 0 0 - 0 02000000--1 2 3 4 5 6 7 8 9 10 ò 12 13 14 15 16 17 18 19 20 40000-0004 100-000001 0 0 1 1 00-0-000 22 23 24 25 26 27 28 29 30 1 2 1 0 0 0 3 4 0 1 0 - 1 0.8 MEAN

PERCENTAGE OF DATA VALID - 99.0

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

INTTS - D DI PARTS/MILLION POLLUTANT - SULPHUR CICKIDE MONTH - OCT 467 UNIVERSITY AV WEST F2 WINDSOR STATION - SW NO 12008 24 MEAN HOUR 2120.32701 NO: 0000000 2200000-00 22000-0-00 -0000000000 - 230000100 10000-0000-050 00000-00-0 4000-00900 -000-00-00 -0000 -0-00 12 13 14 15 16 17 18 19 00-000000 ò 0000--00000 0 0 1 2 0 0 1 3 1 22 23 24 25 26 27 28 29 30 02032020-4 0 0 1 002-02001 -000000004 0-100 0-003 0.9 MEAN

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH . NOV 467 UNIVERSITY AV WEST F2 WINDSOR STATION - SW NO 12008 24 MEAN HOUR 0003-31 2 3 4 5 6 7 8 9 ō 0 2 0 2 2 . 0400031 . 320001 .... 12 13 14 15 16 17 18 19 20 0 . 20011062 0 1 0 0 2 3 3001.041 00030-0 2 2 0 1 2 0 1 1 0 1 7 0 2 0 0 1 0 2 0 0 1 22 23 24 25 26 27 28 29 30 60000-1 5 DATA INVALID -DATA INVALID -DATA INVALID -

1 2

PERCENTAGE OF DATA VALID - 81.1

MEAN

PERCENTAGE OF DATA INVALID - 13.9

PERCENTAGE OF DATA UNAVAILABLE - 5.0

1 1 1 1.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

1 1

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - U G: FARTS/MILLION

	ST	ATION	- SW	NO	12008		467 L	INIVER	SITY	AV WE	ST F2	WINE	SOR			NO:A	TH .	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.7	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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13	2	4	4	5	2	2	1	1	1	2	1	2	2	2	2	2	2	2	2	4	5	4	3	3	3
14	3	4	3	3	2	3	2	2	1	2	3	2	2	2	2	2	1	2	2	2	2	2	2	2	2
15	3	3	2	2	2	2	3	3	3	3	3	3	3			3	1	2	••••	4	2	2	2	4	2
16	2	2	1	1	1	2	1	1	1	3	7	1.1	6	3	3	3	2	3	3	3	3	4	4	4	3
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PERCENTAGE OF DATA VALID - 90.1

PERCENTAGE OF DATA INVALID - 8.3

PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

## UNITS - 0.01 PARTS/MILLION

STATION - SW	NO 12008	467	UNIVERSITY AV	WEST	F2 WINDSOR

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1,3	3	8
FEB	25	1.5	4	10
MAR	31	0.9	3	12
APR	30	0.8	2	7
MAY	31	1.2	3	13
JUN	30	1,0	3	10
JUL	25	0.7	j.	9
AUG	27	1.1	4	8
SEP	30	0.8	2	8
OCT	31	0.9	3	12
NOV	24	1.0	4	2 11
DEC	28	1.6	4	11
YEAR	343	1.1	4	13
				Š

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

# MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTA	NT - SU	LPHUR D	IOXIOE					UNITS - 0.01	PARTS/MI	LLION		
STATIO	N · SW	NO 120	08 4	67	UNIVERSITY	AV WEST	F2 WINDSOR					
м	ONTH 00	TO 05	06 TO 1	0	11 TO 15	16 TO 20	21 TO 25	26 TO 39 40	TO 49 5	O SOVER	TOTAL	
,	JAN	720	1	5	0	0	٥	- 0	0	0	735	
	FEB	613	1	8	0	٥	0	0	0	0	631	
	RAN	725		9	1	o	0	0	0	0	735	
	APR	696		5	0	0	0	0	0	0	701	
,	YAW	720		8	2	0	0	0	0	0	730	
,	JUN	681	,	1	0	٥	0	0	0	0	692	
,	JUL	623		9	٥	٥	0	0	0	0	632	
	AUG	647	,	1	0	٥	٥	0	0	0	658	
	SEP	710		3	0	٥	٥	0	0	0	713	
(	DCT	713	1	2	3	0	c	0	0	0	728	
1	NOV	566	,	7	1	0	0	0	0	0	584	
(	DEC	639		10	3	0	0	0	0	0	670	
Y	EAR	8053	14	8	8	0	0	0	0	0	8209	

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES									
	PERCENT					CONCEN	TRATIONS					
	OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
										4 -		

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	· sw	NO	12013	F	ILTRAT	PLT	3665	WYAN	DOTTE	ST	E WIN	DSOR		MON	νтн -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	000000000	0000000000	0000000000	1 0 0 0 1 0 0 0	1000101100	0 0 0 1 0 1 1 1 2	0 0 0 1 0 0 1 1 4	0 0 0 0 1 1 4	0000-00004	000000000	0002001003	000000-004	0001001003	0001001002	0 0 0 1 0 0 2	0 0 0 1 0 0 2	0000001001	0 0 0 0 0 1 0 0 1	000000001
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21 22 23 24 25 26 27 28 29 30	0 0 0	0000	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0	010	0 1 0	1 0	1 1 0	- DA1	DATA I	NVALI NVALI NVALI NVALI AVAILA	D - BLE			000		0 0 0 0 0			1 0	10	0
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PERCENTAGE OF DATA VALID - 78.8 PERCENTAGE OF DATA INVALID - 11.4

PERCENTAGE OF DATA UNAVAILABLE - 9.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION	ı - s	W NO	12013	3	FILTR	AT PLT	3665	WYAN	DOTTE	ST	E WI	NDSOR		MON	тн -	FEB	80							
HOUR	1	2	3	4	5	6	Ż	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
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PERCENTAGE OF DATA VALID - 31.2 PERCENTAGE OF DATA INVALID - 60.2

PERCENTAGE OF DATA UNAVAILABLE - 8.6

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - MAR STATION - SW NO 12013 1 3 24 MEAN HOUR 00-1 2 3 4 5 6 7 8 9 10 0 0 1 4 00-6000000 00-90-0000 12 13 14 15 16 17 18 19 20 22 23 24 25 26 27 28 29 30 O U U U U v 0.1 MEAN O

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - APR 24 MEAN HOUR 9 0.00000111 0 200000010 12 13 14 15 16 17 18 19 20 000000N:-0000000:00 0...000 22 23 24 25 26 27 28 29 30 000.00 000:00 000.00 .0000000 o 0.1 MEAN 

PERCENTAGE OF DATA VALID - 94.3

PERCENTAGE OF DATA INVALID . 5.4

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	ST	ATION	. sw	NO	12013	ı	FILTRA	T PL	1 366	5 WYA	NDOTTE	ST.	E WIN	DSOR		MON	TH -	MAY	60						
HOUR	ř	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	1	0 1 1	0 1 1	••••	••••	••••	0	• • •	••••	••••	0 ! 2	1	1	INVALI	,	2	2	2	<sup>1</sup> 2 3	3	1				
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11 12 13 14 15 16 17 18 19	1 1 0 0 0 0 1 1	1 1 0 0 0 0 1 1	1 1 0 0 0 0 1 1	1 1 0 0 0 0 0 1	0	1 1 0 0 0 0 0 0 1	0	1011000000	100100000	1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1101010010	1101000010	0 0 0 0 1 1	0 1 0 1 0 1 1	0 1 0 1 1	00000111	0001011	1 1 0 0 1 2 1	0010121	1 0 0 1 0 1 1	1 0 0 1 1 1 1	0001	1 0 0 0 0 1 1 1	0000
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	0000	1 1 0 0 0 0 1 0 1 1	1 1 0 0 0 0 0 0 1 1 1 1 1 1	0 0 1 1 1 1 1	000000000000000000000000000000000000000	0 0 1 1 0 0	0000011000	1 1 0 0 0 0 1 2 0 0	200000000000000000000000000000000000000	20000	1 2 0 0 0 1 5 2 0 0	2000005200	3 3 1	1200003211	0	200000000000000000000000000000000000000	2000012221	2000012320	2 1 0 0 0 0 1 2 3 2 0	2 1 0 0 0 0 1 1 2 2 0	2 1 0 0 0 0 1 1 2 1 0	2000001110	20000011110	1 1 0 0 0 0 0 2 2 1 0
31 MEAN	0	1	1	0		0		0	0	0	1.	1	1	1	1	1	,	1	1	1	,	1	1	1	0.6

PERCENTAGE OF DATA VALID - 91.9 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	. s	ULPH	UR DIO	XIDI	:							INITS	- 0.0	1 PA	RTS/N	MILLIC	N						
	STA	TION -	SW	NO	12013		FILTRAT	PLT	3665	WYA	NDOTTE	ST	E WIN	SOR		MON	тн -	JUN	80						9
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 !	MEAN
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PERCENTAGE OF DATA VALID - 98.2 PERCENTAGE OF DATA INVALID - 1.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE NONTH - JUL STATION - SW NO 12013 FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR 24 MEAN 15. HOUR 0-000001 1 2 3 4 5 6 7 03000-000 00000-000 0-0000000 0000-0000--0000 00000-00000 -000-0-12 13 14 15 16 17 18 19 20 .. .. 22 23 24 25 26 27 28 29 30 000-00 

PERCENTAGE OF DATA VALID - 98.7

MEAN

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE .

0.1

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\* - \* INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

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ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT . SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION FILTRAT PLT 3665 WYANDOTTE ST E WINDSOR MONTH - AUG STATION - SW NO 12013 24 MEAN HOUR 00000:0000 0000000-0 12 13 14 15 16 17 18 19 20 00000000--22 23 24 25 26 27 28 29 30 o 0.0 MEAN

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE -

- \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS MILLION

	STA	TION	SW	NO	12013		FILTRAT	PLT	3665	WYA	NDOTTE	ST E	WIN	DSOR		MON	тн - ;	SEP	80						
HOUR	Ť	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 A	EAN
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PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTA	NT -	SULP	HUR D	OIXOI	E							UNITS	٠.	.C: PA	RTS/A	ALLLIC	in.							
	S	ATION	· s	N NO	1201	3	FILTRAT	PLT	3665	WYA	NDOTTE	ST	E w1	NDSOR		MON	тн -	ост	80							
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PERCENTAGE OF DATA VALID - 76.7 PERCENTAGE OF DATA INVALID - 23 3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	PO	LLUTANT	. s	ULPH	UR DI	OXIDE	E							UNITS	. 0	.01 PA	RTS/	airric	N							
	ST	ATION .	SW	NO	12013	Ĺ	FILTRA	T PL	T 3665	WYA	NDOTTE	ST	E W.	NDSOR		408	114 .	NOV	80			•				
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PERCENTAGE OF DATA VALID - 79.9 PERCENTAGE OF DATA INVALID - 20.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTA	NT .	SULP	HUR DI	OXIDE								UNITS	. 0	01 P	ARTS/I	AILLIO	H							
	ST	ATION	· s	W NO	12013	ı	FILTRAT	PLT	3665	WYA	NDOTTE	ST	E WIN	DSOR		MON	TH -	DEC	80							
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PERCENTAGE OF DATA VALID - 81.6 PERCENTAGE OF DATA INVALID - 18.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - D O1 PARTS/MILLION

			ALTER DO LENGISTEE	LUM
STATION - SW	NO 12013 FILTRAT PLT	3665 WYANDOTTE ST E WI	NDSOR	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
NAU	23	0.3	1	4
FEB	8	0.2	1	5
MAR	31	0.1	2	9
APR	28	0.1	3	2
MAY	27	0.6	2	5
JUN	30	0.1	0	2
ųμι	31	0.1	1	6
AUG	31	0.0	Ť	3
SEP	30	0.0	i	1
. OCT	23	0,1	1	3
NOV	24	0.1	1	3
DEC	24	0.1	1	4
				-

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

	MONTHET G	MOUP PREQU	ENCY DI	SIRIBU	TION FOR	1980						
Р	OLLUTANT	- SULPHUR	DIOXIDE					UNITS -	0.01 PARTS/	MILLION		
	STATION -	SW NO 12	013	FILTR	AT PLT 36	SS WYANDOTTE	SPT E W	INDSOR				
	MONT	H 00 TO 05	06 TO	10 1	1 TO 15	16 TO 20 21	10 25	26 TO 39	40 TO 49	50 &OVER	TOTAL	
	JAN	586		0	0	0	0	0	o	٥	586	
	FEB	217		0	0	0	0	0	0	0	217	
	MAR	742		2	0	0	0	0	0	0	744	
	APR	679		0	0	0	0	0	0	0	679	
	MAY	684		0	٥	0	0	0	0	0	684	
	JUN	707		0	0	0	0	0	0	0	707	
	JUL	733		1	0	0	. 0	0	0	0	734	
	AUG	733		0	0	0	0	0	0	0	733	
	SEP	706		0	0	0	0	0	0	0	706	
	OCT	571		0	0	0	0	0	0	0	571	
	NOV	575		0	0	0	٥	0	0	0	575	
	DEC	607		0	0	0	0	0	0	0	607	
	YEAR	7540		3	0	0	0	0	0	0	7543	
F	FREQUENCY	DISTRIBUT:	ON BY	PERCEN	TILES							
		OF DATA	MIN		10 30	FREQUENCY	DISTRI 70	RATIONS BUTION: P		18 99	MAX	ARITH ME AN
		85.9	0	O	0 0 0	0.0	0.0	0.1	0.7		2	

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	PU	LEGIA	MALE:	SULFF	OK DI	0.100															ě,				
	ST	ATION	- SW	NO	12016	i	COLLE	GE/SC	UTH S	TREET	WIN	DSOR				N.C.	TH -		80						
HOUR DAY	1	2	3	4	- 5	6	7	. 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN .
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PERCENTAGE OF DATA VALID - 91.7 PERCENTAGE OF DATA INVALID - 8.2

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	PO	LLUTANT	- 5	SULPH	UR DI	OXIDE								UNITS	s · o	.01 PA	RTS/M	ILLIO	N							
	ST	ATION -	SW	NO	12016		COLLE	GE/SC	outh s	TREET	WIN	DSOR				MON	TH +	FEB	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23		MEAN	
1 2 3 4	0	1.5	0	0	1	2	1	2	1	1	0	0	DATA	O I NVA I NVA	ria - 0	0	0	0							8	
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8	0	1	1	1	1	0	0	0	0	1	1	1	6	,	2	- 3		2		- 1		,	,	•	1	
9	1	2	1	1	1	1	0	0	0	0	0	1	1	- 1	1	- 3	- 1	- :			- 1	- 5	5	2	i	
10	0	2	1	0	1	0	0	0	0	0	0	1	2	1	2	1	,	3	1			-	•			
11	3	2	2	5	5	3	3	2	0	1	- 1	,	1	3	4	3	4	3	3	1	3	1	2	2	2	
12	3	4	2	3	3	3	4	3	2	3	1	2	3	3	4	3	د	4	>	8	4	3	5	4	3	
13	3	2	4	4	2	2	2	1	1	2	4	3	3	3	4	3	3	2	3				3	0	3	
14		ē	4	5	5	5	6	2	4	4	2	2	2	1	1	0	0	0	0	0			0	0	- 4	
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24			3	7			ō	0	1	1	0	1	0	2	,	2	2	2	1	2		1	2	2	1	
25	- 1	1	õ	ò	o	0		ō	o	0	0	0	0	0				O	0			0	0	. 0		
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27	6		8	9		6		4	3	2	1	0	1	1	0			٥	0				1	0		
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PERCENTAGE OF DATA VALID - 86.2 PERCENTAGE OF DATA INVALID - 13.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - C C! PARTS, MILLION

																	4 R 1 3 , m		14						
	STA	TION	- sw	NO	12016		COLLEC	GE/SOL	TH S	TREET	WIND	DSCR				MON	(TH - )	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	WEAN
1 2 3 4 5 6 7 8	0 0 4 1 0 0 0 0 2 0	0 0 5 1 0 1 1 1 3 1	0 0 4 1 0 4 4 1 2 1	0 0 4 1 0 4 0 0 2 2	1 0 3 4 0 2 0 0 2 1	0143010001	0015000001	1 2 0 0 0 1 0 1	1 2 1 2 0 2 0 1 2 1	1 1 4 0 3 0 1 4 2	0 1 10 0 0 0 1 3	0109000142	0000040	0010020021	000102002	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00200-000	0 0 3 0 0 - 0 0 0	002000010	00500000	0 1 1 0 0 0 0 0 0	0177000001	0 5 0 0 0 0 0 0	0 1 2 2 0 1 0 0
11 12 13 14 15 16 17 18	1 0 0 2 1 0 0 0 1 1	3 0 0 0 0 0 0 1 2	3 0 0 1 0 0 1 2	3 0 0 1 0 0 1 0 2 2	3:0000000000000000000000000000000000000	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 0 1 0 0 0 1 1 2	3 0 0 0 0 0 1 1 2	2 0 0 0 0 1 0 1 2 2	2 : 0 0 0 1 0 1 3 2	000000000000000000000000000000000000000	2 - 0 - 0 0 0 0 - 4 2	3 1 0 1 0 0 0 0 1 3 2	01001002	5 0 0 1 2 0 1 1	000000000000000000000000000000000000000	100000	2 0000000000000000000000000000000000000	0 0 0 0 0 1 0 1 1	0 0 0 0 1 1 0 1 1	0 0 0 0 1 0 0 1 1	0 1 0 0 1 1 1 1 1 1 1	0 0 0 0 0 0 1 1	0 0 0 0 0 1 1 1	2 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 2 0 0 0 1 0	1 2 0 0 0 0 1 0	1 2 1 2 0 0 0 0 1 0	1 1 2 0 0 0 0 0 1 0	0 1 2 0 0 0 1 0	0 2 0 0 0 0 0 0	0 0 0 0 0 0 0 1	0 1 1 2 0 2 1 1 0 0	0 0 1 2 1 6 1 3 1 0	0 0 2 2 0 2 1 3 1 0	2 2 0 2 1 2 0 0	1 0 2 2 1 2 1 1 0 0	1 0 3 2 0 1	1 0 3 1 0 2 1 3 0 0	0 0 3 1 0 1 2 4 0 0	0 0 3 1 0 0 0	001105400	0 0 4 0 0 0 5 2 0 0	0030005100	1020002100	0010001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2010000100	1 1 0 0
31 Mean	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	1	0	0 0.8

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## CNTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	. 5	UL PH	UR DIO	XIOE							3	UNITS	. 0.0	D1 PAF	RTS/MI	[LL[0	w.						
	STA	TION -	SW	NO	12016	(	OLLEG	E/SQU	TH 51	REET	WIN	DSOR				MON	гн - 2	PR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	ft	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 1 1 0 0 0 0	10000	1 0 1 0 0 0 0	0 0 2 1 1 0 0 0 0	3310000	0 0 0 1 5 0 0	0 0 0 1 4 0 0 0 1 1	1 0 0 1 2	0 0 0 2 2 0 0 0 1	0 1 0 3 3 1 0 1 0 4	0 1 0 3 2 1 0 1 0 4	0 1 1 0 0 1 0 4	00.00000	000000000	0100000000	1100000010	2000000004	2000000000	100000000	100000000	000000000	000003	0 2 0 0 0 0 0 0	0 2 0 0 5 0 0	00001200002
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 1	000000000000000000000000000000000000000	1020000202	000000001	0 0 0 0 0 0 1	00-0000000	00000000	0 0 0 0 0 0 1	000000000000000000000000000000000000000	0000001150	0 0 0 0 2 0 0 1 3 0	1000200	000010	000000010	000000000	000000000000000000000000000000000000000	000000001	000000000	000000000	0000000000	0000000000	0000-00000	0000.00000	0000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	,000000000	000000000	000000000000000000000000000000000000000	.00000000	000000000000000000000000000000000000000	-000000000	1000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000	000000000000000000000000000000000000000	200000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	0000000000	0 0 0 0 0 0 0 0	002000000	010000000	0 0 0 0 1 0 0	000000000000000000000000000000000000000	000010001
MEAN	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	o	0	0	0	0	0	0	٥	٥	0.4

PERCENTAGE OF DATA VALID - 98.6 PERCENTAGE OF DATA INVAL:D - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0 8

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 FARTS, MILLION POLLUTANT - SULPHUR DIOXIDE WONTH - MAY COLLEGE/SOUTH STREET WINDSOR STATION - SW NO 12016 24 MEAN 1.1 HOUR DAY 0 2 2 4 4 0 . -00-0 2 12 13 14 15 16 17 18 19 -0100011 0 0 0 1 ò 0 1 1 22 23 24 25 26 27 28 29 30 0 6 ò O O 

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

1.

1.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION MONTH - JUN COLLEGE/SOUTH STREET WINDSOR STATION - SW NO 12016 24 MEAN HOUR 0000-00000 04000000-0 0~000-00~0 0-2000-0 9 10 12 13 14 15 16 17 18 19 2 0 20-0200 22 23 24 25 26 27 28 29 30 0000-00 2 .. 0.9 MEAN

PERCENTAGE OF DATA VALID - 96.5

PERCENTAGE OF DATA INVALID . 2.9

PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FALLURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT . SULPHUR DIOXIDE

	. \$1	TATION	- SW	NO	12016	3	COLL	EGE/S	OUTH S	TREET	WIN	DSOR				MOI	NTH -	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	1	2	3	4	4	3	3	2	1	1	0	3	12	1	2	1	0	1
2	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	10	12	7	8	12	13	3
3	12	5	3	2	1	0	1	1	2	1	1	1	2	3	2	2	2	1	1	0	0	0	0	0	2
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5	1	0	0	0	0	0	0	0		0	1	1	1		1	1	C	0	0	0	0	0	0	0	0
6	0 0 0	000	0	0	0	0	0	0	0 0	0	0	0	0		1	0	0	0	0	0	0	0	0	0	0
7	0	0	0		0	٥	0	0	0	0	0	0	1	2	1	0	0	1.		0	0	0	0	0	0
8	0	0	1	0	0		0	0	0	0	0	1	0	)	0		****	3	4		000	0	0	0	1
9		٥	0	0	****	٥	0				0	0	0	)	1	0	0	1	1	0			0	0	0
10	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0		1	0	0	0	0	0	0	0
11	0	0	0	- 1	2	0	3	4	1	2	3	2	1	1	1	2	1	0	0	0	2	0		4	Í
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15	0		0	0		0	0	0	1	!	2	2	. 2	!	1	3	!			1		1	0	0	!
17	0	0	0	0	0	0	. 0	0		****	••••	••••	••••		••••	••••	****	****	••••		••••		••••	****	
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18	0	0	0	0	1.7						1	7	3	- 1	2	2	3	0	0	0	0	0	0	0	1
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31	0	1	0	٥	٥	0	0	0	0	0	0	٥	0	0	1	1	1	1	٥	0	0	1	1	1	0
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PERCENTAGE OF DATA VALID - 93.7 PERCENTAGE OF DATA INVALID - 5.6

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTAN	. :	SULPH	UR DI	OXID	E							UNITS	- 0	01 P	ATS/	MILLI	N						
	\$1	ATION	· sw	NO	12016	3	COLLE	GE/SC	UTH S	TREET	WIN	DSOR				MO	TH -	AUG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	3	2	2	3	5	4	2	2	2	3	1	0	1	1	2	2	0	1	0	2
2	2	1	0	0	0	0	0	0	0	0	0	0	0		0	٠	0	0	0	1	0	0	0	0	ŏ
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8	2	2	2	2	2	2	2	2	2	2	2	3	2	- 7	,	2	1	O	o	- 1		ō	ō	2	2
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15	1	1	0	0	0	ō	0	ō	0	0	0	0	ō	0	2	0	000	0 0	000	ō	0	0	0	0	0
16	0	0	0	0	0	ō	0	0	0	0	0		ō	1	1	0	0	0	0	1	1	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 16 17 18 19	6	0	0	0	0	0	0	1	2	1	2	5		1	,	1	2	2	1	1	1	0	1	6	1
19	6	1	1	0	0	0	0	0	1	1	0	0	1	2	1	1	1	1	1	0	0	0	0	0	1
20	2	2	2	2	2	1	1	1	2	2	3	7	5	3	2	2	2	2	1	1	1	1	1	1	2
21	1	1	•	••••	1	2	1	1	1	1	0	0	1	1	••••	0	0	0	C	00000	٥	0	0	0	1
22	0	0	0	0	0	0	0	0	0	ō	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0
23	00000	0	0	0	0	0 0 0	0000	0	0	000	0	0	0	0	0	0	0	0	0	ŏ	0	000	0	0	ŏ
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PERCENTAGE OF DATA VALID - 92.5 PERCENTAGE OF DATA INVALID - 7.1

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- \*. \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	POLL	UTANT	. 5	ULPHU	S DIO	LDE										DAI D. (-0.00)	100000.11500							1 2	
	STAT	ION -	SW	NO 1	2016	C	OLLEG	E/SOU	TH S	TREET	WIN	SCA				MONT	н · s	EP	80						
HOUR DAY	1	2	3	4 ,	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9 10 11 2 3 14 5 16 7 18 11 6 7 18	0 0 0 0 0 0 0 0 0 1 1 0 1 0 1 0	0000220000 00020010	0100110000 00011010	0 1 0 0 0 0 0 0 0 1 1 0 1 0	00000000	000002100000 00110114	000000000000000000000000000000000000000	010020000000000000000000000000000000000	1101000000 10010000	1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1201100000 20110000	0000000 00000-000	1301100010	0 2 1 1 0 0 1 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	1 1 2 0 0 0 1 0 3 0 0 1 1 1 0 2	2102200000 30111202	2013402000 20111201	200420-000 20110100	0102000000 20110100	100.000001 20110000	100001100001	2001010000 001100000	100200000000000000000000000000000000000	000300000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19	0	0	2	4	5	5	3	4	2	2	2	2	2	1	i	2	3	2	2	1	1	1	2	1	2
21 22 23 24 25 26 27 28 29 30	1 3 2 0 0 0 0 0	0 2 2 0 0 0 0 0 0 0 0 2	0 2 2 0 0 0 0 0 2	2 2 0 0 0 0 0 1	200000000000000000000000000000000000000	0000	1 1 0 0 0 0 0 0 0 0	20000000	1 1 0 0 0 0 0 1	1 0 0 1 0 0 5	000000	2310202035	3 0 3 0 3 3	5 3 1 0 5 0 4 0 3 2	6 3 1 0 4 0 1 0 2 2	6 2 1 0 3 0 2 0 3 3	8 3 0 3 0 0 5 5	6 4 0 1 3 0 1 0 4 4	3 1 0 1 0 0 3 2 2 2	2 2 2 0 0 0 1 4 2 2 2	2 3 3 0 2 0 0 4 2 2	2 4 3 0 2 0 0 4 2 2 2	2 5 1 0 2 0 1 0 2 2	2 4 2 0 0 0 0 0 0 0 2 2 2	2 2 2 0 1 0 1 1 1 2 0 8
MEAN	1	0	0	1	0	1	0	0	0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0.0

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTAN	T . :	SULPH	IUR C!	OXIDE								NITS	. 0 .	11 PAR	TS/M	1110	4						
	ST	ATION	- sw	NO	12016	1	COLLE	GE/SO	uTH S	TREET	WIN	osoa				MONT	H - (	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0000	3	320000000	2200000000	3 5 0 1 0 0		00000	0000	3 2 2 0 1 0 2 0	3 2 1 0 3 2 0 0	3 2 1 0 0 0 4 . 0 0	3220000000	3 2 3 0 0 7 5 5	3 3 2 0 0 1 1 4 7 1	4 2 2 0 0 0 1 3 4 0	3 - 20 00 1 1 5 1	2 2 0 0 0 0 0 1 4 0	3 2 0 0 0 0 0 0 1 6 0	320000000000000000000000000000000000000	3 1 0 0 0 0 0	3 1 1 0 0 0 0 0 0 10 1	3 1 0 0 0 0 0 5	0 1 0 0 0 0 0 1 1	2000000005	3 2 1 0 0 0 1 1 3
10 11 12 13 14 15 16 17 18 19 20	1 1 0 3 4 4	2 0 1 1 1 0	0 3 0 1 0 0 3 1 3	0 4 1 5	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 2 0 1 1 0 3 0	5030100100	3020100010	2010100220	0 0 0 1	2000-005-2	1000.00422	1 1 0 1 1 0 4 0 1	1 0 1 0 1 1 0 3 1 2	000000000000000000000000000000000000000	100001100224	000000000000000000000000000000000000000	00001	20000100013	1 0 0 0 1 0 1 0 2 1	000100100000000000000000000000000000000	0 1 0 0 1 1 0		2 0 1 0 0 2 1 2
21 22 23 24 25 26 27 28 29	0000000000	0000000	120000000000000000000000000000000000000	3 0 0 0 0 0 0 0	00000	000000000000000000000000000000000000000	0000	310000000000000000000000000000000000000	2 2 0 0 0 0 0 0 0 0 3 3	2 1 0 0 0 0 0 4 3	000000000000000000000000000000000000000	0000000	00000000	1000000100	000000000000000000000000000000000000000	0000000000	0000007-00	000000100	0 0 0 0 1 1 0 0	0.000023100	000004201	000001404	000000000000000000000000000000000000000	000.00003	000000000000000000000000000000000000000
31	3	3	5	4	4	1	2	1	1	5	5	3	2	3	2	2	3	2	2	5	8	7	10	6	4
MEAN	1	1	1	1	1	1	1	1	1	1		-1	1	1	1	1	1	3	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 96.0

PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE - 0.9

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

	STA	TION	- SW	NO	12016	C	OLLEG	E/SOU	TH ST	REET	WING	SOR				MON	(н - н	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	4 0 0 0 3 1 3 0 0	2 0 0 0 2 1 2 0 1 0 0	1 0 0 1 1 6 2 0 1 1	10.2151012	3 1 2 1 0 2 0	1 0 1 2 1 1 0 3 1	2 0 0 2 2 1 1 0 3 0 0	0 0 0 2 2 1 0 - 2 0 0	0 0 0 1 1 1 1 0 2 0 0	0 0 1 2 2 1 1 0 3 0 0	0 0 2 1 2 1 1 0 1 0 0	0 0 2 1 1 0 1 0 0 1	0 1 1 1 0 0 0	0 1 2 1 3 0 0 1 1 1 0	0 2 2 2 1 1 1 7 1 - 0	1 2 2 2 0 1 2 4 1 1	0 1 2 1 0 1 1 1 1 1	0412102021	0 10 1 3 1 0 0 0 1 1	1 1 3 3 1 0 0 0 2 0	0 0 3 2 8 1 0 0 3 0	2 1 2 0 1 3 0	1 0 1 3 3 8 0 0 1 0	0 0 0 3 5 8 0 0 1 0	1 1 2 2 2 1 1 2 0 0
12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	1 1 0 0 0 0 3 0	300000000000000000000000000000000000000	00000	3000000	3 0 0 0 0 0 1 0	4 0 0 0	3 0 0 0 0 4 1	2 3 0 0 0 0 0 0 0 4 1	4 3 0 0 0 6	55 4000004 N	5000000	2 40000012	000000	0 0 0 0 0 1 1	.0000	0 0 0 1 1	0 0 0 0 0 1 2	00000101	0000003	0000	00000423	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000
21 22 23 24 25 26 27 28 29 30	3 2 1 0 0 0 . 2 4 3	2012000122	3012310122	3013010234	2012	2001000134	3 0 1 1 0 0 0 4 4 2	20110000341	2 2 1 1 1 0 0 3 4 1	1 3 3 1 0 2 0 3 6	4 2 2 0 0 2 0 3 4 3	2 1 1 0 1 6 0 2 3 7	1010160213	1100050221	0 1 0 0 0 0 0 1 2 1	0 1 0 0 0 0 0 1 1 2	1100000122	210000000	3 0 0 0 1 0 0 2 2 2 2	4200100123	3100000232	2 0 0 0 0 0 0 4 3 2	3 2 0 0 0 0 0 4 4 3	3 1 0 0 0 0 1 4 4 3	2 1 1 1 0 1 0 2 3 3 3
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	2	2	1.1

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	• SI	LPH	UR DIOX	IDE								UNITS	. 0.	01 PA	RTS/N	ILLLIO	N						
	STAT	ION -	SW	NO	12016		COLLEG	E/SOUT	H STR	EET	WING	DSOR				MON	ITH -	DEC	80						
HOUR	1	2	3	4	5 .	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	MEAN
1 2 3 4 5 6 7 8 9	2 0 1 0 0 3 0 0 1 1	200001	2 1 0 0 1 3 0 0 0 0 0	3 1 0 0 2 3 0 0 0 1	3 0 1 0 2 3 0 0	6000120000	3 1 2 0 1 2 0 0 0 0 0	3 1 2 0 1 2 0 1 0 1	1 1 2 2 1 2 0 0 0 1	2014220002	4 0 1 5 2 0 0 0	1	2 1 1 0 1	8 0 1 3 2 0 1 1 0 2	2001201001	1 1 0 0 0 0 2	000000000000000000000000000000000000000	0 1 0 2 0 2	000000000000000000000000000000000000000	1 0 0 1 0 0 1 1	0001001	2 0 0 1 . 0	11102000-0	1 1 0 1 3 0 0 1 1 1 1	1 1 1 0 0 0 1
11 12 13 14 15 16 17 18 19	0 0 0 4 0 1 1 2 1 1	1 3 5 0 1 1 6	1 3 3 4 0 1 1 4 1 3	0 5 9 4 0 0 1 4 0 3	0 1 4 3 0 0 1 3 1 3	0004011101	1 0 2 0 0 1 5	0 1 0 2 0 0 1 0 0 2	0000102002	1 1 0 0 1 0 3 1 2 2	2 1 0 0 5 2 0 1	4 1 0 0 8 3 1	6 1 0 0 2 8 1	0 12 0	4900.09000	2500007100	0 0 0 7 2 0 0	1	1 2 3 0 1	3 0 0 3 1 0 2 0 0	0 1 0 0	0 1 1 2 0 0	2 2 0 1 1 2	0020124	1 0 1 3 2 0 1
21 22 23 24 25 26 27 28 29 30	1 1 3 4 2 3 1 0 3 0	3 0 2 2 3 1 1 1 3 0	2 1 3 3 2 2 2 1 3 0	5 1 3 3 2 2 2 1 3 0	3 2 2 4 2 5 0	5 1 3 2 3 3 2 2 2 0	8 2 3 3 5 2 2 0	11 3 4 1 4 6 2 3 3	12 2 3 0 5 3 2 3 2 0	5030423310	1 0 2 0 4 2 3 4 2 0	1 0 2 0 3 4 3 7	0 4 0 2 3 3 10 1 0	0 0 3 0 2 3 4 9 1 0	0 1 2 0 2 6 3 7	1 1 0 4 4 2 6 0 4	3 1 0 1 3 1 5 0 3	1 4 2 1 1 2 1 3 0 2	0 4 1 1 3 1 3 0	3 1 5 0 0	0 5 3 1 2 2 0 3 0 0	1 4 2 0 3 3 0 0 0	0441220400	0 4 3 1 3 1 0 3	3 3 1 3 3 2 4
31 MEAN	0	0	0	1 2	1 2	2	1 2	1 2	1	0	1	1 2	1 2	1 2	1 2	2	1	1	2	2	2	2	2		1.5
	7.	7.			•			( <del>=</del> 0	-				-		-				1.0				350		

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW	NO 12016 COLLEGE/SOL	JTH STREET WINDSOR		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	28	1.4	4	10
FEB	25	1.1	3	9
MAR	31	0.8	2	10
APR	30	0.4	2	6
MAY	31	1.0	3	12
JUN	30	0.9	4	9
JUL	30	0.7	3	13
AUG	29	0.8	3	7
SEP	30	0.8	2	В
ост	31	1.0	4	13
NOV	30	1-1	3	10
DEC	31	1.5	4	12
YEAR	356	1.0	4	13

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE COLLEGE/SOUTH STREET WINDSOR STATION - SW NO 12016 MONTH OD TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL JAN FEB MAR APR MAY JUN JUL AUG 7:5 a SEP OCT NOV DEC YEAR

FREQUENCY	DISTRIBUTE PERCENT OF DATA	ON BY	PERCENTILES		FREQUENC		TRATIONS IBUTION.					AR 1 TH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
				0.0	0.0	0.7	2 3	3.3	4.7	5.9	13	1.0

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OI PARTS/MILLION

				300-	non o	CAID					ONLY - 0.01 PARISYMILLION															
	51	STATION - SW NO 12032				2	MORTO	N DOG	K BEC	FORD	/OJ 1 Bv	YAY	WINDS	OR.		MOI	NTH -	JAN	80							
HOUR	2 <b>j</b>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
•		2	2	2	4	3	2	1	,	,	1	2		0	0	0	0	٥	٥	0	0	0	0	1		1
2	1	- 3	1	0	0	0	0	٥		••••	••••	0			0	٥	٥	1	0	0	0	0	0	o	9	0
3	1	٥	0	0	1	0	0	0	0	1	0	3	4	2	1	1	1	1	1	- 1	1	2	1	1		1
4	3	2	4	2	3	3	2	2	1	1	1	2	2	2	2	3	8	4	5	5	6	6	5	5	- 3	3
5	5	5	6	5	••••	3	3	4	3	4	4	5	5	4	3	1	1	1	1	1	2	2	2	2		3
6	2	1	1	1	1	1	0	0	0	1	2	2	2	1	1	1	1	1	2	2	2	3	3	2		1
7	1	1	6	3	1	1	1	1	1		1	1	1	1	1	1		1	1	1	2	1	1			1
8	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	2	2	1	- 1		1	1	2		1
9	4	4	5	5	6	5	5	4	3	2	3	5	3	3		3	2	2	2	3	3	3	3	4		4
10	3	3	2	2	2	2	1	2	2	2	3	5	7	7	8	6	8	7	6	4	4	3	3	3		4
11	2 2	2	2 2	2 2	2	2 2	2	2	2	2	2	2		2	2	5	5	3	2	3	3	3	2	2	6	2
12	2	2	2	2	2	2	2	2	2	2	2				• • •		****							••••		٠
13													DATA	INVAL	. 01											
14													DATA	INVA	10 -											
15	. 20.			••••	****	• • • •	****				••••	3	3	3	2	2	2	2	3	2	2	4	5	5		•
16	3	2	2	2	2	2	2	2			****			****												•
17												-	DATA	INVAL	LID -											
18															2	2	2	2	2	4	2	2	3	2		•
19	1	2	2	2	2	2	1		1	2	3	2	2	2	2	2	2	2	2	3	3	4	3	3	- 1	2
20	4	3	3	2	2	2	2	2	3	3	3	3	3	3	4	2	2	2	1	1	1	1	ī	1		2
21	1	1	1	1	1	0	0	0	0	1	1	,	1		1.	1	1	ï	1	1	1	1	ĭ	1	9	1
22	1	2	1	1	1	2	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1		1	1	- 3	1
23	1	2	4	3	2	2	4	3	2	2	2	3	3	1	2	1	2	2	3	2	1	1	0	0	- 1	2
24 25 26	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	٥	0	0	0	0	0	0	0	0		٥
25	0	0	0	0	0	0	0	0	0	0	1	2	3	7	6	4	3	3	4	4	4	1	2	2		2
26	3	2	2	1	1	1	1	1	3	5	4	3	5	5	8	3	1	1	1	1	1	0	0	0		2
27	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1		1	1	1	2	1	3	1
28	1	1	1	2	1	1	1	2	2	1	7	1	1	1	2	1	1	1	1	1	1	1	1	1		١
29	1		0	0	0	0	0	0	0	10	1	1	1	1	2	2	3	2	1	1	1	1	1	- 1	1	1
30	0	1	1	2	2	1	.0	1	1	1	1	1	1	2	1	2	2	1	1	0	1	1	1	1	1	E
31	2	1	,	1	1	1	3	3	3	5	4	2	3	3	3	3	2	2	2	2	-2	3	4	5	;	3
MEAN	2	2	2	2	2	1	,	1		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1.6	3

PERCENTAGE OF DATA VALID - 81.9

PERCENTAGE OF DATA INVALID - 18.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION . SW MORTON DOCK BEDFORD/OUIBWAY WINDSOR NO 12032 MONTH - FEB HOUR 10 12 17 13 16 24 MEAN 15 18 19 20 21 22 23 3 1 2 3 4 5 6 7 8 9 5 3 3 3 3 2 2 3 2 DATA UNAVAILABLE
DATA UNAVAILABLE
CATA UNAVAILABLE
CATA UNAVAILABLE
CATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE OATA UNAVAILABLE
DATA UNAVAILABLE 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 CATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
- DATA INVALID
- 3 O O O
3 2 2 2
1 1 1 1 0 2 0 2 3 2 0 5 5 3 0 4 2304 2 1 2 1 0 5 0 5 MEAN 2 3 3 3 3 3 3 3 3 2 2 2 2.1

PERCENTAGE OF DATA VALID - 18.8

PERCENTAGE OF DATA INVALID . 3.4

PERCENTAGE OF DATA UNAVAILABLE - 77.7

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAR MORTON DOCK BEDFORD/OJIBWAY WINDSOR STATION - SW NO 12032 24 MEAN HOUR A 2 2 1 2 2 3 3 3 1 30-2021 ò 12 13 14 15 16 17 18 19 20 1 4 3 0 0 3 1 1 1 2 3 1 1 3 1 2 1 22 23 24 25 26 27 28 29 30 1 0 1 .000100 ò ò ò ò O 1.2 MEAN

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MORTON DOCK BEDFORD/OJIBWAY WINDSOR MONTH - APR NO 12032 STATION - SW 24 MEAN HOUR 1 2 3 4 5 6 7 8 9 10 00---0000 00001-0000 ò 103-000 04-000 3-000. 1 0 1 -0000 O O DATA INVALID DATA DATA DATA DATA DATA INVALID INVALID INVALID INVALID 12 13 14 15 16 17 18 19 3 4 0 0 0 2 22 23 24 25 26 27 28 29 30 2 1 0 1 1 0 0.9 MEAN 

PERCENTAGE OF DATA VALID - 74.6

PERCENTAGE OF DATA INVALID - 24.2

PERCENTAGE OF DATA UNAVAILABLE - 1.3

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	STA	TION -	SW	NO	12032		MORTON	DOCK	BED	FORD/	WB1CC	AY W	INDSC	R		NON	TH -	MAY	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 h	EAN
1	0	1	1	1	1	0	0	0	2	1	,	٥	٥	o	0		o		0					0	
2	0	0	0	0	0	0	0	1	2	2	2	2	2	ī	•	2	1	ì	ĭ	-	2	2			4
3	1	1	2	2	1	2	2	3	4	4	4	4	4	1		ī	i i	2	2	2	5	1	4	÷	
4	1	1	1	- 1	0	Q	1	1	3	3	2	2	2	2	3	3	4	2	3	2	3	2	2	2	5
5	2	1	1	- 1	2	3	1	3	2	3	2	2	1	1	2	2	2	1	1	7	5	2	2	7	5
6	1	1	2		1	1	1	1	1	1	2	4	2	1	1	1	1	í	•	1	ī	2	3	3	7
7	3	4	2	2	1	1	2	3	3	4	2	2	2	2	2	2	2	2	2	2	3	4	2	1	2
8	1	1	3	3	1	2	4	4	2	3	3	1	2	- 1	2	3	2	2	2	1	1	2	3	3	2
40	1	3	4	2	2	3	7	6	4	2	1	1	1	1	1	1	0	0	2	2	3	1	1	1	2
10	0	0	0	0	0	0	0	1	1	2	2	2	2	1	2	2	1	1	0	1	ĩ	1	0	0	1
11 12 13	0	0	0	0	0	1	1	0	0	1	1	1	0	1	1	2	1	1	1				•	-	
12	2	2	1	1	î		î	1	3	5	3	à	ĭ	- 1	3		2	2	2	0		- 1	2	5	2
13	1	1	1	1	0	0	0	î	1	2	3	2	з	2	3	- 1		1	2	1	1	- 1	- 2		•
14	4	4	3	3	3	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	- 1	- 3	3	1
. 15	0	0	0	0	0	0	1	3	2	2	ī	3	3	ī	ò	1	ō	õ	-	2		1	- 1	0	*
16	0	0	0	0	0	0	0	1	ō	1	0	õ	ŏ	ò	ŏ	ò	o	ř	ó	ő	0	2	:	Ÿ	2
17	1	1	1	1	1	1	1	2	1	1	1	ĩ	1	ī	ĭ	1	ī	1	1	ĭ	1	1			·
18	1	1	1	1	1	1	1	1	1	1	1	1	1	Ó		ò	ó		÷		2	3	- 1		
15 16 17 18 19	1	1	1	1	1	1	1	2	3	2	1	1	1	ĩ	1	2	2	2	3	3			- ;	2	,
20	1	1	1	1	1	1	1	0	1	2	2	1	1	1	1	1	ī	1	2	6	3 >	ī	î	î	î
21 22 23 24 25 26 27 28 29 30	3	2	2	2	2	3	4	5	5	3	2	1	1	1	1	1	1	1	1	1	,	1	0	1	2
22	1	1	1	1	1	1	1	2	4	4	3	4	1	1	1	2	1	1	,	i	- 1	i	ĭ	- 1	5
23	2	2	1	1	1	1	•	2	2	2	2	2	2	4	4	3	2	2	2	i i	- 1	1	1	•	5
24	1	1	1	1	1		1	1	2	2	2	2	2	3	2	2	3	3	3	3	à	i	- 1	i	2
25	1	1	1	2	2	1	1	2		2	2	1	1	1	1	1	1	1	1	1	ī	i	1	1	ī
26	1	1	1	1	1		1	2	1	1	1 .		1	2	2	1	٥	1	0	1	2	1	1	1	i
27	. 3	•••	1	1	1	1	1	3	7	6	5	3	2	3	2	2	3	2	4	2	1	1	1	i	2
26	0	0	1	1	1	1	1	1	2	3	2	1	1 .		2	3	2	2	2	2	1	1	1	1	1
29	1	1	1	1	1	1	0	•	**	2 .	•••	•••	•••		2 .		2	1	2	2	2	1	1	1	1
30	1	1	1	1	1	1	1	1	2	3	2	1	2	2	••••	2	1	1	1	1	1	1	1	1	1
31	2	1	1.	1	1	1	. 1	1	1	1	1	1	1	4	1	1	1	1	1	1	2	2	2	2	1
MEAN	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	2	1	1	2	1	2	1	1	21	1.5

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA (NVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - SW NO 12032 MORTON DOCK BEDFORD/OJIBWAY WINDSOR MONTH - JUN BO 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN 11 12 13 14 15 16 17 18 19 20 -000000000 1 0 2 \*\*\*\* 0 0 0 0 1 1 0 0 0 0 0 0 0 0 2 00010 21 22 23 24 25 26 27 28 29 1 3 0 1 0 1 0 1 1 1 0000000 00000000 00000000 213130000 00102001

PERCENTAGE OF DATA VALID - 96.0

MEAN

PERCENTAGE OF DATA INVALID . 3.9

PERCENTAGE OF DATA UNAVAILABLE - 0.1

1.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. ... INDICATES DATA IS UNAVAILABLE

1

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

1 1 1

UNITS . O.O. PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH . JUL 80 MORTON DOCK BEDFORD/OJIBWAY WINDSOR STATION - SW NO 12032 24 MEAN 9 10 11 12 13 14 16 17 HOUR 10 00 1 0 1 00. 1 0 0 2 ò 0 1 1 2 0 22 23 24 25 26 27 28 0.8 MEAN PERCENTAGE OF DATA UNAVAILABLE - 0.7

PERCENTAGE OF DATA VALID - 94.9 PERCENTAGE OF DATA INVALID - 4.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGNIDE MONTH - AUG 80 MORTON DOCK BEDFORD/OJIBWAY WINDSOR STATION - SW NO 12032 24 MEAN 8 9 10 11 12 16 17 HOUR 12 13 14 15 16 17 18 19 20 DATA INVALID 0 . 0 0 3 1 3 1 3 ò 22 23 24 25 26 27 28 000-000 0 20 1.5 MEAN 

PERCENTAGE OF DATA VALID - 90.6

PERCENTAGE OF DATA INVALID - 9.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS, MILLION STATION - SW NO 12032 MORTON DOCK BEDFORD/OJIBAAY WINDSCR MONTH - SEP HOUR 24 MEAN 001. 3 4 5 6 7 8 9 0 4 0 2 0 2 3 12 13 14 15 16 17 18 19 20 4000.01023 0 0 1 ó 0 2 3 22 23 24 25 26 27 28 29 30 - 200000000 . . . . . . . . . . . . . . . -03230 

PERCENTAGE OF DATA VALID - 99.2

, 1

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE -

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DICKIDE UNITS . O OF PARTS/MILLION STATION - SW NO 12032 MORTON DOCK BEDFORD/OJIBWAY WINDSOR MONTH - OCT HOUR :8 24 MEAN 1 2 3 4 5 6 7 8 9 10 200200-25-Q 40-000 0 0 7 12 0 0 0 6 10 1 12 13 14 15 16 17 18 19 20 3 1 o ò 22 23 24 25 26 27 28 29 30 00010010. U MEAN 1.1

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA :NVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE . 0.3

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - NOV MORTON DOCK BEDFORD/OUIBWAY WINDSOR 24 MEAN HOUR 2 2 2 0 3 0-0000-004 2 2 2 1 1 2 3 4 5 6 7 8 9 10 0,01 000-1 2 4 3 0 1 2 0 2 3 3:2001 12 13 14 15 16 17 18 19 20 3 2 2 1 1 4 0 00-0000 ò DATA DATA DATA DATA DATA 22 23 24 25 26 27 28 29 30 INVALID INVALID INVALID INVALID 0 2 00-01 000-0 0 1 1 1 0 1 1 1 0 2 1 0 0 2 0 1 2 2 0 1 2 2 ò o 1.1 MEAN .1 

PERCENTAGE OF DATA VALID - 82.5

PERCENTAGE OF DATA INVALID - 16.5

PERCENTAGE OF DATA UNAVAILABLE . 1.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MORTON DOCK BEDFORD/OJIBWAY WINDSOR MONTH . DEC NO 12032 24 MEAN : 7 HOUR 000000-00 040-20040 1 2 3 4 5 6 7 8 9 10 0000-4 00302300-2 0 4 0000.00 10001-00 00000-00 12 13 14 15 16 17 18 19 20 -03-000-00 000010. 1 2 1 6 3 0 4 3 .7 1 3 040502-50 22 23 24 25 26 27 28 29 30 0020-21 2 4 7 1.3 

PERCENTAGE OF DATA VALID - 96.2

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLICH

	- A			all contact the fact a district and all and	16-C011
	STATION - SW	NO 12032 MORTON DOCK	BEDFORD/OJIBWAY WINDSO	R	
	MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
	JAN	24	1.8	4	8
	FEB	5	2.1	4	e
	MAR	30	1.2	3	7
	APR	22	0.9	2	5
`\	MAY	31	1.5	2	7
,	JUN	30	1.0	3	9
	JUL	29	0.0	2	10
	AUG	28	1.5	8	24
	SEP	30	0.9	2	8
	OCT	31	1.1	3	12
	VON	24	1.1	3	8
	DEC	31	1.3	3	9
	YEAR	315	1.2	a	24

## CNTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

MONTHLY	GROUP	FREQUENCY	DISTRIBUTION	FOR	1980
POLITITAN		-	t n.e		

POLLUTANT - S	ULPHUR DI	301XO			U	NITS - 0.01	PARTS/MIL	LION	
STATION - SW	NO 1203	2 MORTON	DOCK BEDI	FORD/OJIBW	AY WINDSO	R			
MONTH C	O TO 05	06 TO 10 11	TO 15 16	5 TO 20 2	1 TO 25 2	6 TO 39 40	TO 49 50	SOVER	TOTAL
MAL	593	16	0	О	o	0	٥	0	609
FEB	126	5	0	o	0	0	0	0	131
MAR	718	12	0	o	0	0	٥	0	730
APR	537	0	0	o	٥	0	0	٥	537
MAY	725	5	0	0	0	0	0	o	730
JUN	686	5	0	o	0	0	0	o	691
JUL	694	12	0	0	0	0	0	o	706
AUG	641	26	2	4	1	0	0	0	674
SEP	707	7	0	0	0	0	0	0	714
OCT	727	11	1	0	0	0	o	0	739
NOV	589	5	0	0	0	0	0	0	594
DEC	703	13	0	0	o	0	o	0	716
YEAR	7446	117	3	4	4	0	0	0	7571

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES									
	PERCENT						TRATIONS					
	OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	86.2	0	0.0	0.0	0.4	1.0	2.4	3 4	4.7	5.9	24	4.2

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE HYDRO SS CONCESSION 14/15 COURTRIGHT STATION - SW NO 14004 24 MEAN HOUR -000000000 -000000000 00-00000-0 00000:0000 00-00-0000 12 13 14 15 16 17 18 19 20 2000-0000 0 0 00000-0000 00000-0000 0000--0000 0000-00000 22 23 24 25 26 27 28 29 30 o 0.1

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIGE HYDRO SS CONCESSION 14/15 COURTRIGHT STATION - SW NO 14004 HOUR 2 1 0 0 0 0 0 0 0 0 0 000-00 00-100 002100.20 002.0 000-00 .. .. ... .. .0. : 12 13 14 15 16 17 18 19 20 0000-0-000-000-000-21 0 1 0 2 3 0010. 0-0000000 22 23 24 25 26 27 28 29 0000000-0 0.4 o MEAN

PERCENTAGE OF DATA VALID - 87.4

PERCENTAGE OF DATA INVALID - 12.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STATION - SW NO 14004 HYDRO SS CONCESSION 14/15 COURTRIGHT					17	T MONTH - MAR BO																		
HOUR	1	. 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	0 0 0 1 1 0 0 1 0	0 0 0 1 1 0 0 1	00011000	00011000	0 0 1 1 1 0 0 0 0	0 0 1 1 1 0 0 0	0 0 1 1 0 0 0 0	0 0 1 1 1 0 0 0 0	0 0 1 1 1 0 0 0	0 0 1 1 1 0 0 0	1 0 1 2 1 1 0 0	1 0 1 2 1 2 1 0	1 1 2 1 3 1 0	1 2 1 2 4 0 0	3 1 0 1 3 0	0 3 3 1 0 1 1 0	0 1 2 2 1 1 1 0	2 2 1	0 0 1 1 0 1 0	0 0 1 1 0 1 1 0	00110010	0 0 1 0 0 1 0	0 0 1 1 0 0 1 0	0 0 1 0 0 1 0	0 0 1 1 1 1 1 1 0
10	1	1	0	1	1	0	0	0	0	0	0	12	2	2	0	2	1	1	0	ò	0	0	0	0	0
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000	100000000	00000000	0000000000	0000000001	0000000011	0 0 0 1 0 0 1 1	0 0 0 0 1 0 0 0 2 1	0 0 0 0 3 1 0 0 0 2 2	0000410012	0 0 0 4 1 0 0 1 1	0 0 0 0 0 0 1 1	300	000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	000000000	0300100010
21 22 23 24 25 26 27 28 29 30	030000000	0 2 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	020000000	0100000000	0000000000	000000000	0000000000	0000000000	0 0 0 0 0 1 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 0 1 1 0 0 0	3 2 0 0 0 1 1 0 0 0	2 7 0 0 0 1 1 0 0 0	2 2 0 0 0 1 1 0 0 0	40000000000	4000000000	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000001000	3 0 0 0 0 0 1 0 0 0	30000000000	1000000000	1000000000	1000000000
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	••••	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	1	1	1	1	•	1	1	1	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - 3	WLPH	UR DIO	XIDE						UNITS - 0.01 PARTS/MILLION													
	STA	TION	- SW	NO	14004	٠	HYDRO	SS CO	NCESS	ION	14/15	COUR	TRIGH	T		MON	TH - A	PR	80						
HOUR	,	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 1	0000000000	0 0 0 0 0 1 0 0	0 0 0 0 0 1	0 0 0 0 0 0 0 1 0 1	000000101	0000000000	00000011000	000001000	0000001001	000000000000000000000000000000000000000	00000-0000	000000000	0 1 0 0 0 0 0	0 8 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0 1	0101000001	01000001	0 0 0 1 0 0 0 0 0 1	000100001	000000001	000000000	000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 1
11 12 13 14 15 16 17 18 19 20	0000100001	0000-00000	0 0 0 0 0 0 0	0000100000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	100010000	0000100100	000000000000000000000000000000000000000	1 0 3 0 1 0 0 3 3 1	0 2 0 1 0 1 4 2 1	1030001113111	102000117711	1000021511	0 0 0 0 2 1 1 1 0	0 1 1 5 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100001-000	1000001000	1000001001	1001001001	0 0 0 1 0 0 0	0 0 0 1 0 0 0 0 1 0	0 0 0 1 0 0 0 0 1 0	1000001210
21 22 23 24 25 26 27 28 29 30	001000000	00-0000000	0 1 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0000000000	0 1 0 0 0 0 0 0 0	0110000000	0100000000	0 2 0 0 2 - 0 0 0 0	2 2 1 0 4 4 0 0 0 0	3 2 1 0 4 2 0 0 0 1	6 3 2 0 3 4 0 0	20 1 3 0 4 4 0 0 0 0 0	15 1 0 2 5 0 0 0 1	3 1 0 2 5 0 1	2 1 0 0 1 3 0 1 0 2	1 0 0 3 0 0 0 0 1	1 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 1 0 0 0 0 0	010000000	0 1 0 0 0 0 0 0 0	0100000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0
MEAN	0	0	0	0	0	0	o	0	0	1	-1	1	2	1	1	3	0	0	0	0	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA CUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIGXIDE

	-00	- O · Air				~								2 - 20											
	STA	TION -	SW	NO	14004	-	HYDRO	SS CC	NCES:	ION	14/15	cou	RTRIGH	1T		NONT	H - 1	YAL	80						
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	000000000	0 0 0 0 0	000000	00000000	000000	00000000	0000000	0 0 1 0 2 0	0001040	1 1 0 1 0	3 0 0	5 0 0 0 0	0 19 4 0 0	124610200	18 2 4 1 0 0 0 0	7 2 1 0 0 0 0	5 1 4 0 0 0 0 0	3 3 0 0 0	1 1 0 0 1	0 0 3 1 0 0 0 0 0	00510000	0 0 0 0 0	00-000000	0000000	2 2 1 0 1 0 0
8 9 10	0	0	0 0	000	0	0	0	000	000	0	0	0	0	0	0	0	0	0	0	0	0	0	D	0	0
11 12 13 14 15 16 17 18	0000000000	000000000	0000000000	0000000000	000000000	0000000000	000000000		0000000000	1001200000	3 0 0 0 0	0000000000	0 0 0 0 0 0 0 0 0	0-00000000	0 1 23 20 00 00 0	300000	000000	0-0-600000	0 1 3 0 0 0 0 0	0 1 0 0 0 0 0 0	0100000000	000000000	0000000000	000000000	0:00100000
21 22 23 24 25 26 27 28 29	000000000	0000100000	0000100000	000000000000000000000000000000000000000	0000000	000000000	000120000	000120000	1 0 1 2 1 1 0 0	7 1 1 2 1 2 5 8 0	5 1 0 1 2 2 5 7 0	200122	1 0 0 1 2 2 1 2 1 0 0	1 0 0 1 1 1 5 2 0 0	5 0 0 6 1 1 3 0 0 0	18 0 0 9 1 1 2 3 0 0	9 0 0 2 1 1 1 4 7 0 0	3002125100	9 0 0 2 1 5 5 1 0 0	3 1 0 0 0	1 0 0 1 0 0 0	1002001000	1 0 0 0 1 0 0 0 0	0001001000	3 0 0 2 4 1 3 1 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	1	1	1	2	1	2	5	2	1	1	1	0	0	0	0	0.7

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- \$	ULPH	UR DIO	XIDE							3	UNITS	- 0.0	O1 PAR	RTS/MI	LLION	N.						
	STA	TION -	SW	NO	14004		HYDRO	SS CC	NCESS	ION	14/15	COU	RTRIG	нт		MON	тн - "	IUN	80						
HOUR	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	0 0 0 0 0 1 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000000	000000100	0000000000	0001000000	0000000000	000000000	0 0 0 0 0 0 0 1 0 0 1	0001000402	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0001000401	0 0 0 1 0 0 0 6 1 0	0000400	000000000000000000000000000000000000000	003000100	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0 0 0 0 0 1 0 0
11 12 13 14 15 16 17 18 19	00000000	0 0 0 0 0 0 0 0 0	000100000	000000000	0 0 0 0 0 0 0	0000000000	000000000	0010001	0 0 4 0 0 0 1 1 0 1	0 0 4 0 0 1 1 1 1 0 1	1 1 2 0 0 1 2 0 1 0 1	1 4 0 0 8 0 1 0 2	0 2 0 2 0	1 1 0 1 0 7	0 1 0 1 0 2	0 0 1 0 0 0 0 0 0 1	0 0 0 0 0 0 1	0 0 1 0 0 0 0 0 0 1	001000000	1 0 0 0 0 0	001000000	0010000000	000000000	0010000000	0001
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	00000-00-	0000000001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1	0 0 0 0 1 1 0 0 0	0 0 1 0 0 1	0 2 0 0 1	1 0 4 0 1 1 2 0 0 1	0 0 1 0 0 1	0 0 1 1 0 1 1 0 7	1 0 4 0 1	011110200	0 2 1 0 1 1 0 2 0 1	0 1 0 1 0 4	000000	0 0 0 0 0 1 1 2 7	000000150	0 0 0 0 0 0 1 5 0	000001110	000000000000000000000000000000000000000	0 0 0 0 0 1 0 1 0	00000-0000	0 0 0 0 1 1 1 1
MEAN	٥	0	0	0	٥	0	0	0	o	1	1		1	1	-1	1	0	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN CHE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

0.000	200000000000000000000000000000000000000															in tack									
STAT	TION -	SW	NO	14004		HYDRO	SS CC	NCESS	NOI	14/15	cou	RTRIC	нт		MON	TH -	JUL	80							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	18	1.7	18	19	20	, 21	22	23	24	MEAN	
000000000	000000000	000000000	0000000000	0000000000	0000000000	00000000	000000000	0100030000	1 0 0 0 0 0 0 0 0	0 20 3 0 0	0 12 3 0 0 0 0 3 0 0	0 23 2! 0 0 0	0 18 8 0 0 0 0 0 0	0 4 6 0 0 1 0 0 0 0	00600000	006000000	00500000	00400000	0 0 0 0 0 0	000000	00000000	0000000	000000000000000000000000000000000000000	3	
0 0 0 1	0 0 0 1	0 0 0 1	0000	0 0 0 1	0 0 0 1	. 0	00001	0	3 0 1 8	5 0 1	•	DATA DATA DATA	INVAL INVAL INVAL INVAL	ID - ID - ID - ID -	5 1 1	3	2 1 1 1	0 1 1	0	0 0 2 1	0 0 1 1	0 0 1 1	0 0 1	1 0 1 2	
1 1 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0	0 1 1 1 0 0 0 0 0	0 0 0 0 0 0 0 0	0100000000	1 0 0 0 0 0 0 0	1 0 0 1 1 0 0 0 0	1 1 3 0 0 0 0 0 0 0	1 0 1 1 3 0 0 0 0 0 0	1 1 2 0 0 0 0 1	1 1 0 0 0 0 1	1 1 0 0 0 0 0 1	1 0 0 0 0 0 0 0 0 3	7 3 1 0 0 0 0 0 1 2	2 1 1 0 0 0 0 0 1 1	1 1 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	00-000000	-000000000	1100000000	1 0 0 0 0 0 0	000000000000000000000000000000000000000	1100000000	000000000000000000000000000000000000000	
0	0	0	0	0	0	0	0	0	0	2	1	2		0	0	G 1	0	0	0	0	0	0	0	0 0.6	
	000000000000000000000000000000000000000	1 2 00000000000000000000000000000000000	1 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 0 1 1 1 1	1 2 3 4 5 6  0 0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  1 1 1 1	1 2 3 4 5 6 7  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8  0 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 10  0 0 0 0 0 0 0 0 0 0 0 0 1  0 0 0 0	1 2 3 4 5 6 7 8 9 10 11  0 0 0 0 0 0 0 0 0 0 0 0 1 0  0 0 0 0	1 2 3 4 5 6 7 8 9 10 11 12  0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 0	1 2 3 4 5 6 7 8 9 10 11 12 13  0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0  0 0 0 0	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15 COURTRIGHT  1 2 3 4 5 6 7 8 9 10 11 12 13 14  0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  MONTH	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  MONTH - 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17    0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 20 12 23 18 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  MONTH - JUL  1	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  MONTH - JUL 80  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17 18 19  0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  MONTH - JUL 80  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17 18 19 20  0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0	STATION - SW NO 14004	STATION - SW NO 14004	STATION - SW NO 14004	STATION - SW NO 14004	STATION - SW NO 14004  HYDRO SS CONCESSION 14/15  COURTRIGHT  MONTH - JUL 80  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17 18 19 20 -21 22 23 24 MEAN  0 0 0 0 0 0 0 0 0 0 0 0 1 1 20 12 23 18 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 21 8 8 6 6 8 5 4 1 1 1 0 0 0 0 3 3 3 21 8 8 6 6 8 5 4 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PERCENTAGE OF DATA VALID - 78.6 PERCENTAGE OF DATA INVALID - 21.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. " ... INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLL	UTANT	· \$	ULPH	UR DIO	XIDE							·	INITS	- 0.0	DI PAI	RTS/MI	LLION	1.						
	STAT	ION -	SW	NO	14004		HYDRO	SS CO	NCESS	ION	14/15	cou	RTRIG	4 T		MON	TH - A	UG	80						
HOUR	•	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	000000000	000000000	00000000	000000000	000000000	000000000	00000000	000000000	0 0 0 0 0 0 1 1 0	0 0 0 0 0 0 1 1 0	000000000000000000000000000000000000000	0 0 0 0 1 1 0 0	0 0 4 1 0 0 0 0	0 0 1 0 13 0	0 0 5 0 0 1 0 1 0	0040000	000000000000000000000000000000000000000	0 0 0 1 0 0 0 0	0000010000	0000-000	000000000	000000000	000000000	00000000	0 0 0 0 0 1 0
11 12 13 14 15 16 17 18 19	000000000	000000000	000000000	000000000	000000000000000000000000000000000000000	000000000	000000000	000000000000000000000000000000000000000	0 0 0 0 1 0 0 1 0	000000011	000000000000000000000000000000000000000	1 0 0 0 3 1	000000000000000000000000000000000000000	: 1 0 0 2 0 0 0 1 3	010110005	000000000	0100000001	3100000001	000000000	000000000	000000000	0000000000	0000000000	0000000000	***************************************
21 22 23 24 25 26 27 28 29 30	0000000000	0000000000	00000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	0000000000	0000000000	0010000000	10000000	1 0 0 1 0 0 0 0 0 0 0 0	0110200000	0010100001	0010000001	00000000	001010000	0 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0.2

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - \*. \* INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLITANT . SUI PHUS DIOXIDE

UNITS - 0.01 PARTS/MILLION

	POL	LUIANI	. ,	ULPH	104 010	AIDE									-	W		0.200							
	STA	TION -	SW	NO	14004		HYDRO	SS C	ONCES	ION	14/15	cou	RTRIG	нт		MON	тн - :	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	ti	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	O	0	0	0	0	0	0	0	٥	0	2	8	9	Ö	o		ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ō	ō	1
3	0	0	0	0	0	0	0	0	1	۰	2	8		0			Ÿ	٠	Ÿ	ĭ	ŏ	ŏ	ŏ	1	1
4	0	0	0	0	0	0	1	1	1		•	1	2	0 2 0	2	ò	ò	ó	ò		ŏ	ŏ	ō	0	1
5	1	1	1	1	1	1	1		1	1	1	- 4	o	ŏ	2	2		ŏ	0 0 0	000	ő	ŏ	ŏ	ŏ	1
6	0	0	1	3	1	1	1	1	1	2	2	2	ű	8	2	á	ò	3	ŏ	ŏ	ŏ	0	ō	o	Ó
7		1	•	- 1	1	1	1	0	0	0	0	٥	- 1		- 1	100	ĭ	1	ŏ	ŏ	ŏ	ŏ	ō	0	0
8	0	0	0	0	0	0	0	0	0	0	1	4	. !		- 1		- :	2	ŏ	ő	7	ŏ	ō	ō	1
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16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	0000	0	Š	ŏ	ŏ	ŏ
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24	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	o	ŏ	č
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27	0	0	0	0	0		0	0	0	0	0	0	٥	1	0	1	1	0	0	0	0	0	0	0	č
28	0	0	o	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0		0	0	0	ŏ	ŏ
29	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	ŏ	ŏ
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MEAN	0	0	0	0	0	0	٥	0	0	0	1	•	1	1	,	0	0	0	¢	0	0	0	c	0	0.3

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGXIDE HYDRO SS CONCESSION 14/15 COURTRIGHT MONTH - OCT 80 STATION . SW NO 14004 24 MEAN 12 13 14 15 16 17 18 9 10 HOUR DAY 2 3 4 5 6 7 8 9 000-000-00 0000000-00 0000000-00 10102-21 12 13 14 15 16 17 18 19 20 0-00000000 0-00000000 22 23 24 25 26 27 28 29 30 0000000-00 -50-00004 000-00-140-0000-0.2 

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLICH

	ST	ATION	· sw	NO	14004		HYDRO	\$5 (	ONCES	SION	14/15	cou	RTRIC	н т		MON	TH - 1	NOV	80							
HOUR DAY	1	2	3	4	5	Ġ	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
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14	×	ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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20	0	U	0	0	٥	0	0	0	0	0	0	0	1	1	2	2	1	1	1		1	1	2	2	1	
21	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	٥	0	
22	0	0	0	0	0	0	0	1	1	1	1	1	1	2	1	2	1	- 7	1	ī	- 7	1	1	ĩ	ĩ	
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MEAN	0	0	0	0	0	0	0	0	0	0		- 1	2	1	1	1	0	0	0	0	0	0	0	٥	0.4	

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 3.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

STATION - SW NO 14004  HYDRO SS CONCESSION 14/15 COURTRIGHT  MONTH - DEC 80  HOUR	
DAY  1	
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MEAN
10 1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	0 4 2 0 0 0 1 1 1 1 1 1
11	000000000000000000000000000000000000000
21	0 1 2 0 0 1 1 1 3
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.7

PERCENTAGE OF DATA VALID - 95.2 PERCENTAGE OF DATA INVALID - 4.8

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - S	SW	NO 14004	HYDRO SS	CONCESSION	14/15	COURTRIGHT
-------------	----	----------	----------	------------	-------	------------

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAX! MUM	MAXIMUM READING
JAN	31	0,1	2	7
FEB	24	0.4	2	5
MAR	31	0.4	1	4
APR	30	0.5	2	20
MAY	31	0.7	3	19
JUN	30	0.4	1	12
JUL	24	0.6	. 3	23
AUG	31	0.2	1	13
SEP	30	0.3	3.	15
ост	31	0.2	1	5
NOV	29	0.4	2	22
DEC	29	0.7	4	16
YEAR	351	0.4	4	23
	·			

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP	FREQUENC	Y DISTRIBUT	ION FOR 19	980					
POLLUTANT - SUI	PHUR DIO	XIDE			U	NITS - 0.0	1 PARTS/MI	LLION	
STATION - SW	NO 14004	HYDRO	SS CONCES	SION 14/15	COURTRIG	нт			
MONTH OO	TO 05 0	6 TO 10 11	TO 15 1	5 TO 20 21	TO 25 2	6 TO 39 4	O TO 49 5	O SOVER	TOTAL
JAN	737	2	0	0	0	0	٥	0	739
FEB	608	0	0	o	0	0	0	0	608
RAM	739	0	0	o	0	٥	0	0	739
APR	710	3	3	i.	0	٥	0	0	717
MAY	722	13	5	3	0	0	0	. 0	743
JUN	713	3	1	0	0	. 0	0	0	717
JUL	573	6	2	2	2	0	0	0	585
AUG	738	0	1	0	0	0	0	0	739
SEP	708	5	4	0	0	0	0	0	714
ост	742	0	0	0	0	o	0	0	742
NOV	690	4	1	0	1	0	0	0	696
DEC	691	12	4	1	o	0	0	0	708
YEAR	8371	48	18	7	3	0	٥	0	8447

FREQUENCY		ION BY	PERCENTILES			CONCEN	TRATIONS					
	OF DATA				FREQUENCY							ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	06.2	0	0.0	0.0	0.0	0.0	0.8	1.4	3.0	4.8	23	0.4

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

	STA	TION	- SW	NO	14016		OPPOSI	TE L	AMBTON	GS	HWY40	COUR	RIGHT			MON	тн -	LAN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	13 0	7 0 0 1 1 1 1 1 1 1 0	4 0 0 1 1 1 1 1 1 1 1 1 1	2 0 0 1 1 2 0 1	2 0 0 1 1 2 1 0 0	50011110	10 0 0 1 1 1 1 1 0 0	9 0 0 1 1 1 1 1 1 2	6 0 0 1 1 1 2 1 1 1	5 0 0 1 1 1 2 1 1	4 0 0 1 1 1 2	200211200	3 0 0 2 1 1 2 0 0	200101200	1 1 1 2 0 0	001101200		0 0 1 2 0 0	0 0 0 1 1 0 2 0 0	0 0 0 1 0 1 0 1	D 0 1 1 1 0 1	0 0 1 1 1 0 1	0 0 1 1 1 1 1 1 0 1	0 0 1 1 1 1 0 1	3 0 0 1 1 1 2 0 1
11 12 13 14 15 16 17 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0	0200001000	0300001000	030000000	03000000	030000000	2 02 1 00 00 00 00	0210000000	0 2 1 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 2 0 1 1 0 0 0 0 0	3 0 1 3 0 0 0 0 0 0 0 0 0	0020013000	3 0 0 1 1 0 0 0	3 00 1 00 00 0	3 0 0 1 0 0 0 0 0 0	3 0 0 1 0 0 0 0 0	3 0 0 1 0 0 2 0 0 0 0	0 0 1 0 0 0 0	1 0 1 0 0 1 0 0 0	1 0 1 0 0 0 0 0 0	1 2000000000	2 0 1 0 0 0 0
21 22 23 24 25 26 27 28 29 30	1 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0	1 0 0 1 0 0 0 0 0	0000100000	1 0 1 0 0 0 0 0 0	00-0-0000	1 1 0 1 0 0 1 0 1	1 1 1 0 0 0 1	1 1 0 1 1 0 0 0 0 0 0 0	0101100000	0 1 0 0 0 0 0	0 1 0 0 0 0 0	320000	0 0 1 1 0 0 0 1	0 0 2 0 1 0 0 0 1	000000000000000000000000000000000000000	0 0 0 0 0 0	0011000000	00-0000000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0	0 0 1 1 1 0 0 0 0 0	0011000000	0 0 1 1 0 0 0 0 0 0
31 MEAN	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	3 0	2 0	0	0	1	0	0	0.6

PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - SW NO 14016 OPPOSITE LAMBTON GS HWY40 COURTRIGHT MONTH - FEB 80 HOUR 9 10 11 12 13 14 15 16 17 18 19 20 21 1 2 3 4 5 6 7 8 9 0000 000 11 12 13 14 15 16 17 18 19 20 1 0 0 1 3 3 1 0 21 22 23 24 25 26 27 28 29 0 0-00000 00001 0 0 4 1 1.3

PERCENTAGE OF DATA VALID - 90.4

PERCENTAGE OF DATA INVALID - 9.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION .	SW	NO	14016		OPPOSITE	LAMBI	ON GS	HWY40	COUR	TRIGHT			MON	ITH -	MAR	80						
HOUR	1	2	3	4	5	6	7	8 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	3 2 2 2 2 2 0 0	2 2 3 1 2 0 0 0	2 2 3 1 2 0 0	2 2 2 1 2 0 0	2 2 2 2 2 2 0 0	2 2 3 : 2 0 0	2 2 3 1 2 0 0	3 2 2 3 3 3 1 2 2 0 0 0 0	2 3 1 2 0 0	2 2 1	3 1	1 2 2 2 0 1	3 2 3 0 1 0 0 0	201400	3 1 2' 0 1 0	3 2 3 1 0 0	3 2 3 1 0 0 0	3 2 1 0 0 0	2 2 3 2 1 0 0 0 0	2 2 3 2 1 0 0 0 0	3 3 2 1 0 0 0 0	232220000	2 2 2 1 0 0 0 0	2 2 2 1 1 0 0 0
10	0	0	1	1	1	0	1	0 1		0	1	1	2	2	ī	ŏ	ő	ŏ	ŏ	ĭ	2	2	ĭ	1
11 12 13 14 15 16 17 18 19	1 0 0 0 0 0 0 0 0 0	0010000000	000000000	000000000	000000000	1000000000	0		0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 1 0	0002	0 0 0 1 1 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00090001	0 0 5 0 0 0 0 0	0.0060000	000000000000000000000000000000000000000	000000000	000000010	0000000000	0 300000000	0 000000000	0 0 0 0 0 0	0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	000000005	000000000000000000000000000000000000000	00000000	0000000	0 0 0 0 0 1 0	0 0 0 0 0 0 0 2 1	000000000000000000000000000000000000000	0 0 0	0 0 0 0 0 0 0 1 2 2 0	0 1 0 0 6 1 1 4 0	00200411130	0 0 0 1 0 2 1 0	0 0 0 1 1 2 1 0	0 0 0 1 0 5 2 1 0 0	000000000000000000000000000000000000000	0 0 0 2 0 4 2 0 1 0	4 0 2 2 0 0	0001001200	0000001160	0 0 0 0 0 1 1 3 0	0000001020	00000000-0 0	000000000000000000000000000000000000000	0001011120
31 MEAN	1	1	0	0	1	1	1	1	-		1	1	1	. 1	1	1	,	0	1	1	1	0	0	0.6

PERCENTAGE OF DATA VALID - 97.6 PERCENTAGE OF DATA INVALID - 2.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	RIDE							U	NITS	. 0.0	DI PAR	RTS/M	ILLIC	N						
	STA	TION .	SW	NO	14016		OPPOS I TE	LAM	STON	GS	HWY40	COUR	TRIGHT			MONT	rH	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4	0 5	0 2	2 0 1	0 1 2	. 0 0 1	0	1	0	1 0 1	0 1	; ! ! O	0 2 1 1	0	0 4 1 0	1	0 2 0 1	4 0 1	3	0 6 1	0 1 1 0	0 1 0	0 6 1 0 0	0 11 3 0	12 2 0	0 2 1 1
5 6 7 8 9	0 0 0 1 0 0	0 0 0 0	0 0 1 0 0 0	0 0 1 1 0 0	0 1 1 0	0 0 1 1 0 0	0	0 1 1 0 0	0 1 1 0 0	1 1 0 0	2 1 0	1 1 0	0101	0 1 2 0 0	0 1 0 0 0	1 0 0	0 1 0 0 0	0 - 0 0 0 0	000000	0 0 0 0	0 0 0	01000	00000	0 - 0 0	0 1 0 0
11 12 13 14 15 16 17 18	000010000	000010000	000010010	0 0 1 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00001	0 0 0 0 0 0 0 0 0	00000110	0 0 0 1 1 0 1 1 0	0000111232	0 0 1 7 1	00001017	3000-0240	0000101304	0	0 0 2	0010121306	1000141009	0 0 0 1 3 0 0 0 0	00000000	000100000	0001000010	0 1 0 0 0 1 0	0001000010	000011002113
20 21 22 23 24 25 26 27 28 29 30	3 0 1 0 0 0 0 1 0 0 0	0000001000	0 000000-000	0 1 0 0 0 0 3 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0110004000	0 22 20 0 0 50 0 0	1 1 1 0 1 0 6 0 0 0	2100007000	4200107002	0000	15 3 2	3 2 2 2 2 3 8 0 0 3 8 0 0 3	3 2 4 6 0 1 10 0 2 3	4015008014	1 0 1 8 1 2 2 0 3	0 1 0 3 4 4 2 0 3 1	0 0 4 4 4 3 4 0 2 1	0 1 0 1 2 1 0 2 3 0	0 0 0 3 1 0 0 1 3 3	0 1 0 2 0 0 0 0 3 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 2 0 0 1 0	2 1 1 2 1 1 4 0 1 1
MEAN	0	٥	0	0	0	0	1	1	1	ij	2	2	1	2	2	1	1	1	1	0	0	1	1	1	0.9

PERCENTAGE OF DATA VALID - 98.6 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . 0.01 PARTS/MILLION

	STA	TION -	SW	NO	14016		OPPOSI	TE L	AMBTON	G\$	HWY40	COU	RIGHT	r		NON	TH -	MAY	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	٥	1	5	5	4	3	4	8	4	3	5	4			4		1	0	2	2	1	1	3
2	2	3	3	1	1	0	0	1	4	6	3	2	1	- 1	1	1	1	2	ò	ŏ	ō	ō	0	ó	ĩ
3	0	0	ō	0	0	0	o	0	0	ō	6	1.1	1.1	10	10	10	8	9	10	5	- 5	2	3	ĭ	4
4	0	0	0	0	0	0	0	1	-	0	0	0	0	o	0	o	1	5	3	3		7	ō	ò	- 7
5	0	0	0	0	0	0	1	0	0	0	o	ō	õ	ō	ŏ	o	o	ŏ	ō	ŏ	ò	ò	o	ĭ	ò
6	1	0	0	0	0	0	0	1	3	4	7	4	7	5	3	o	1	ő	ŏ	ő	ő	ŏ	ŏ	o	
7	0	0	0	0	0	0	0	0	ō	0	0	0	0	ō	ŏ	ō	ò	ŏ	õ	ŏ	ŏ	o	ŏ	ő	0
8	0	0	0	0	0	0	0	0	0	0	0	0	o	ō	ō	o	ō	ō	0	ŏ	ő	ŏ	o	ŏ	õ
9	0	0	0	0	0	0	0	0	0	0	O	0	0	ō	ō	0	0	ō	õ	7	ŏ	o	ō	ŏ	ŏ
10	0	0	0	0	0	0	0	0	ō	1	ō	ō	ŏ	- 1	ŏ	ŏ	ō	1	1	ò	0	0	ŏ	ō	ŏ
11	0	0	0	0	0	0	0	0	0	0	0	0 0	0	. 0	0	٥	٥	0 .	2	ï	1	0	0	1	0
12	1	1	0	0	0	0	0	0	0	1	0	٥	0	0	4	1	1	2	0	0	٥	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	v	U	U	1	0	U	U	U	1
14 15	0	0	0	1	0	0	0	0	Q	0	0	1	4	7	5	2	1	0	0	0	ō	0	0		1
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	,		0	0	0	0	0	0
16 17	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	ō	0	0	0	0	0
17	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	٥	000	0	o	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	ō	0	ō	ō	Ó	0	0
19	8	0	0	0	0	0	1	1	2	0	0	0	3	3	2	1	2	2	4	4	2	1	1	2	1
20	8	3	6	7	6	8	1.1	10	9	3	3	2	2	7	15	16	18	12	13	6	4	4	2	2	7
21	1	1	1	0	0	0	0	1	8	16	10	1.1	10	9	5	3	2	2	6	7	3	2	1	0	4
22	0	0	0	0	0	0	0	0	0	0	0	0	**** *		0	0	0	٥	0	2	1	0	0	0	0
23 24 25 26 27 28	0	0	0	O	0	0	0	0	0	0	0	0	5	0	0	O	0	0	1	2	1	0	0	0	0
24	0	0	0	1	1	0	1	2	2	1	4	5	13	12	24	8	6	8	6	1	3	1	1	2	4
25	1	0	0	2	5	7	3	4	6	4	2	2	1	1	0	0	0	0	0	3	4	2	1 •		2
26	0	1	2	2	1	0	1	1	2	12	2 .		0	1	2	0	0	2	5	5	1	o	0	0	2
27	0 *	• • •	0	0	0	0	0	0	0	1	0	0	1	0	1	2	2	2	2	1	o	0	0	0	1
28	0	0	0	0	0	0	0	0	2	3	4	3	1 *		1	5	5	2	2	3	4	1	o	ō	2
29	0	0	0	0	0	1	1	0	0	1	****		0 •		0		0	1	1	1	4	2	1	1	1
30	0	0	0	1	0	0	1	1	o	1	0	1	0	0	ō	0	a	Ó	o	ò	Ö	ō	o	ó	0
31	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	G	٥	0	0	o	o	0	o	0
MEAN	0	0	0	1	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	1	1	1	0	0	1.2

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	SI	TATION	- sw	NO	14016	3	OPPO	SITE	LAMBT	ON GS	HWY40	cou	RTRIG	нт		MON	TH -	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	1.2	13	14	15	16	17	16	19	20	21	22	23	24	MEAN
4	0	0	0	0	0	0	1		0	0	1	0	0	0	0	٥	0	0	0	o	0	0	0	0	0
2	0	0	0	0	0	0	0			0	0	0	0			0	0	0		1	2	1	ō	o	0
3	0	0	0	0	0	0	0	1	4	1	0	0	0	0	1	3	3	4	1	6	2	1	0	0	1
4	0	0 7 0	0	0	0	0	0	2	0	1	3	1		0	0	1	2	0	0	ŏ	ō	î	0	Ö	0
5	0	7	0	0	0	0	0	0	0			0	0	0	o.	0	ō	0		ŏ	ő	Ó	ō	0	ō
6	0	0	0	0	0			0	0	0	0	0	0	ó	0	0	ā	ō	ō	5	š	5	15	4	2
7	10	2	0	0	2	1	0	٥	0	0	0	0	0					****	****						
8									-				DATA	INVA	LID -										
9													0	0		0	0	0	0	0	0		0	0	
10	0	0 .	0	0	0	0	0	0	٥	0	0	٥	0		****		ō	o	ŏ	ŏ	ŏ	0	ŏ	ŏ	0
							-	-	•	-	-	•					~			•	·	•	•		
11	0	C	0	0	C	0	0				****		0	С	0	0	~	0	0	0	۵	0	C	c	~
12	0	ō	ñ	ō	o	ō	õ	0					ŏ	ŏ	×	ŏ	0	ő	0	٠		-	-		ž
13	ŏ	-	-	·	ō	ō	0	ŏ	2		1000000	2	2	Ÿ			ĭ	٠			٥	0	- 1	2	Ÿ
14	- 1		1	0	****		****				^	0		- :		ò	1	- 1			1				1
15	Ó	o	ò	ŏ	0	0	0	0		4	Y	٠	ő	ò		0		ò	ò	Ü	٥	0	0	0	Ÿ
16	ŏ	ŏ	ŏ	o	ŏ	ō	ŏ	3		8			4	3			0	3	3		1	0	0	0	1
17	ŏ	ŏ	ŏ	ŏ	ŏ	2	3	3				0				~ ~			3	1	0	0		0	3
18	ŏ	0	ŏ	ŏ	ŏ	-	0			:	- 1			. 0	. 0	. 0	15	0	1	1	0	0	0	0	1
19	3		1	•	٠		a				- 1	0			12		15	14	5	0	0	0	1	2	3
20	0	5	ò	ò	ó	,	0	0			0			2	٥		0	0	0	٥	0	0	0	0	
20	U	0	u	0		0	U	u	0	0	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	_			_	- 141					-	720		_	-	7.0	20				CAV.	197
22	ŏ	ŏ	ő	0	0	0	0	0		0	0	0		0	٥	0	0	٥	٥	٥	0	0	0	0	0
23	ö	ŏ	ŏ	o	0						0	0	1	0	4	2	1	1	0	0	0	0	0	0	0
24	ŏ	ŏ		o		0	0	0		3		- 4	0	O	0	O	0	0	0	0	0	0	0	0	0
25	ŏ	ŭ	0		0	0	0			1	0	2	2	2	o	0	•	o	0	0	0	0	0	0	0
	o o	0	0	0	0	0	0	0		2	2			1	2	1	0	0	0		0	0	1	0	1
26 27	ŏ		0	0	0	0	1	1	0	0	0	0		1	0	0	0	6	0	0	0	0	2	2	0
28	0	1	2	0	0	0	0	0		1	0	2	4	1	C	1	1	6	10	6	1	1	3	0	2
	- 1	0	0	0	0	0	0	0	0	0	0	1		,	1	0	D	0	0	0	0	0	0	0	0
29 30	0	0	0	0	0	••••	••••	0	0	0	0	2		0	0	υ	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	U	0	O	0	0	0	0	0	0	0	0	0	~
MEAN	1	0	0	o	o	0	0	1	1		1														0.6

PERCENTAGE OF DATA VALID - 87.1 PERCENTAGE OF DATA INVALID - 11.7

PERCENTAGE OF DATA UNAVAILABLE - 1.3

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 PARTS/MILLION

	POL	LUTANT	· S	ULPH	UR DIO	LIDE								41.3	٥.				30						
	STA	TION -	SW	NO	14016		OPPOSITE	LA	MBTON	GS	HWY40	COUR	TRIGHT			MON	тн - ,	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8	00-0000000	0 1 0 0 0 5 0 0 0 0	030000000	0 2 0 0 0 0 0 0 0	0100000000	060000000	300000000000000000000000000000000000000	0510011000	0 2 1 0 0 0 7 1 0 0 0 0	1221:31000	5 1 0 0 0	2 1 4 0 4	0 2 1 1 0 3 0 5 0 4	0 13 0 0 0 2 0 4 0 4	0900010101	0	0 2 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000000000000000000000000000000000000	8 0 0 0 0 0 0 0	1300100000	1 0 0 3 0 0 0 0	0000000000	000000000	0001300000	0 4 1 0 0 2 0 1 0 1
11 12 13 14 15 16 17 18	000000000	0000000000	000000000	0000000000	0000000000	0000000000	0 0 1 0 0 0	0000120001	0 0 0 1 1 0 1 1 1	0 0 0 0 1 0 1 1 1	0 0 5 1 0 1 5 1 0	0071030110	0 1 4 1 0 4 1 0 1 3	0 2 0 4 0 3 6 2 1 6	0 1 0 1 4 8 1 4	0 0 1 0 1 . 3 1 2	1001211	0 0 1 0 0 3 2 0 1 1	6 0 1	000000000000000000000000000000000000000	00000001	1 0 0 0 1 0	0000010000	0.0000000	0 0 1 1 1 0 1
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	01.0000000	00.0000000	00.00000	00.000000	00.000000	0 0 0 0	00 - 01 00000	0 0 0 1 0	00.1200020	0	00.2010000	0 2 0 0 0 0 0	02.1000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 4 1 0 1 1 1 0	0031001000	0 0 0 0 1 0	0 0 0 0 0 0 0	0000000000	0000000000	0.00000.00	0.00000.00	0.0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	1	1	1 2	- 1	1	1	1	0	0	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 95.7 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 3.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POLI	LUTAN	r . :	SULPH	UR DIO	XIDE	ı							UNITS	- 0.	Q1 P4	RTS/N	ILLIO	N						
	STA	TION	SW	NO	14016		OPPOS	ITE LA	MBTO	GS	HWY40	COUR	TRIGH	т		KON	TH .	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0	000000000	00000000	000000000	0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0003001040	0001101010	0003000150	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000	000000000	00-000-000	0001000000	0000000000	0000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	000000000	0000010001	000000011	00000000	000000000	00012000121	20000120	0 0 0 2 2 0 0 0 6	000000000000000000000000000000000000000	0 0 1 3 0 0 1 5	000000000000000000000000000000000000000	00000001	0000000000	000000000	0000000000	000000000	0 0 0 0 0 0 1 0	000000000	0 0 1 1 0 0 1 1
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	00000000	0 0 0 0 0 0 0 0 0 0	0 0 0 0	0100000000	0000000	000000000	00000000	040000000	1 4 1 0 0 2 0	1 2 0 0 0 0 0 2 1 0	1 2	0000	000000000000000000000000000000000000000	0 2 6 0 0 1 0 1	2	0 3 1 0 0 1 1 0 0 0	91	1 2 4 1 1 0 0 0 0 0 0	3 1	0 1 0 0 0	1000.00000		0 1 2 0 0 0 1 0 0 0
31 MEAN	0	0	0	0		0		0	0	0	0	1	0	1	1	0	1	0	1	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 96.2 PERCENTAGE OF DATA INVALID - 3.5

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - "." INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

																	-3.4								
	STA	LION	SW	NO	14016	Ř	OPPOSIT	E L	AMBTON	GS	HWY 40	COUR	TRIGH	T		t::O1	NTH -	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	71	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	00000000	00000000	00000000	000000000	00000000	000000000	00000100	000000000	0 0 1 0 0 0 1 1 0 0	0 0 0 0 1 2 1 0	0 0 1 0 1	0001030	0 0 9 1 0 0 0 2 0	004200120	0011	0 0 2 3	000003-2	0000001	00000000	0000	0000	00000000	0000000	00000000	002000
10	1.	1	0	0	0	0	0	0	0	0	o	0	٥	0	o	0	0	0	0	0	0	ò	0	0	0
11 12 13 14 15 16 17 18 19	000000000	000000000	00000000	0000000001	000000000	00000000	000000000	0 0 0 1 0 0 0 0 1	0 0 0 0 0 0 0 0 0 1	00000041	0 0 3 0 0 0 3 1	0000100121	0 0 0 0 0 0 0 0 0 1	000000000000000000000000000000000000000	25	0 0 0 0 0 7 1	000000000000000000000000000000000000000	000000000	0 0 0 0 0 0 0	0000000000	0000000000	000000000	0 0 0 0 0 0 0 1	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	000000000	000000000	00000			0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	00000:00000	0 0 0 0 0 0 0	000.00-00	0 0 0 0 0 1	0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 2	0 1 2 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 - 0 - 0 0 0 0 0	0 0 0 0 0 0 0 0	000000000	0000000000	0000000000	0000000000	•	0 0 0 0 0 1
MEAN	0	0	0	0	0	0	0	0	0	0	9	1	1	1	2		Ĭ	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 96.7 PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	· 5	ULPH	1UR 0103	IDE	is h						Ù,	MITS	- o o		75 /WI	1110							
	STAT	ION -	SW	NO	14016		OPPOSITE	L	AMBTON	G5	HWY 40	COURT	RIGHT			MONT	н - о	СТ	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9		00.000000	0000000000	000000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0000000	1000000100	000000000000000000000000000000000000000	200000.00	0000	200000000	1000010102	200000000	*000000000	000000000000000000000000000000000000000	100000000	000000000000000000000000000000000000000	000000001	0000000000	000000000	0000000000	0000000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000	000000-000	000000000000000000000000000000000000000	000000000	00000000	000000000	000100000	000000000	00000-0000	001000	00-00-000	0 0 1 0 0 0 0	0 0 0 0 0 0 0 0	000000000	0000000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	000000000	0000000000	00000	00000-000	0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0	000200001	0 0 0 0 0 0 0 1	00000	000000000000000000000000000000000000000	00000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00020	000000	0 0 0 0 0 0	0011000000	0000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0
31 MEAN	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	2 0	0	0	o	0.1

PERCENTAGE OF DATA VALID - 97.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 2.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	PUI	LUIANI		ULF	10K 010		4																	
	STA	TION -	SW	NO	14016		OPPOSITE	LAMBTON	GS	HWY40	COUR	TRIGHT			MONT	н - э	OV	80						
HOUR	ī	2	3	4	5	6	7	8 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	
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MEAN	0	0	0	0	0	0	o	0 0	,	1	0	0	0	1	0	0	0	0	0	0	٥	0	o	0.3

PERCENTAGE OF DATA VALID - 98.2

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 1.5

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. " INDICATES DATA IS UNAVAILABLE
  - 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DICKIDE UNITS - 0.01 PARTS/MILLION MONTH - DEC 80 OPPOSITE LAMBTON GS HWY40 COURTRIGHT STATION . SW NO 14016 24 MEAN 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 6 7 HOUR 0-0000-0 0000000-00 00. 010-11 12 13 14 15 16 17 18 19 20 00-00-0000 01-00-0000 -0000 -000--0000 ò 22 23 24 25 26 27 28 29 30 0 1 2 0 0 1 0 \*\* Ú 0.5 MEAN 

PERCENTAGE OF DATA VALID - 96.6

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

STATION - SW	NO 14016	OPPOSITE	LAMBTON GS	HMA40	COURTRIGHT	
0.20.200						

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.6	3	13
FEB	26	1.1	4	8
MAR	31	0.6	2	9
APR	30	0.9	4	15
MAY	31	1.2	7	24
JUN	27	0.6	3	15
JUL	30	0.6	4	13
AUG	30	0.3	2	12
SEP	29	0.3	3	25
OCT	31	0.1	1	5
NOV	30	0.3	1,	6
DEC	31	0.5	4	10
YEAR	357	0.6	7	25

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

MONTHET	GROOP	FRE	VOEN	-	1731	KID		ŲM	FUR	1.34	90															
POLLUTAN	T - SUL	PHU	R DI	0x10	E											UNI	TS	- 0	.01	PAR	TS/	MILL	NO1			
STATION	- SW	NO	1401	6	0	PPO	SIT	E	LAMB	TON	GS	HWY	40	CQUI	RTRI	GHT										
MO	NTH 00	то	05	06 T	0 1	0	11	TO	15	16	TO	20	21	TO	25	26	†O	39	40	то	49	50	&OVE	R T	OTAL	
J	AN	7	30			4			1			0			0			0			٥			0	735	
F	EB	6	22			7			0			0			٥			0.			٥			0	629	
м	AR	7	22			4			0			0			٥			0			0	v.		0	726	
A	PR	6	83		2	2			5			0			0			0			0			0	710	
м	AY	6	81		3	4			10			3			1			0			0			0	729	
U	UN	6	12		1	٥			5			0			0			0			0			0	627	
J	UL	7	00		1	1			1			0			0			0			0			0	712	
A	UG	7	10			5			1			0			0			0			0			0	716	
s	EP	6	90			3			0			2			1			0			U			0	696	
0	CT	7	27			٥			0			0			0			0			0			0	727	
N	QV	7	06			1			٥			0			0			0			0			0	707	
0	EC	7	12			7			0			0			0			0			0			0	719	

FREQUENCY	DISTRIBUT	ION BY P	ERCENTILES									
	PERCENT						TRATIONS					
	OF DATA				FREQUENCY		IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	SB	99	MAX	ME AL
	96.0	0	0.0	0.0	0.0	0.0		2 4	4 5	8.7	25	0.6

UNITS - 0.01 PARTS, MILLION POLLUTANT . SULPHUR DIOXIDE MONTH - JAN 80 156 VICTORIA ST NORTH SARNIA STATION - SW NO 14049 16 17 21 22 23 24 MEAN 18 19 20 3 7 8 9 10 11 12 13 14 15 HOUR o 13 10 9 11 12 13 14 15 16 17 18 19 20 402-00-000 04001010 0 02002 21 22 23 24 25 26 27 28 29 30 0 0 0

PERCENTAGE OF DATA VALID - 89.7

٥ 0

31

MEAN

PERCENTAGE OF DATA INVALID - 10.3

0

3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

1.2

2

2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS . O.O. PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE 156 VICTORIA ST NORTH SARNIA MONTH - FEB 80 STATION - SW NO 14049 23 24 MEAN 16 17 18 19 20 21 9 10 11 12 13 15 HOUR 3 00000-0000 0 1 2 3 4 5 6 7 8 9 10 0 00000-0000 002 006 0 2 2 0 0 0 2 2 0 0 000 ŏ 200 11 12 13 14 15 16 17 18 19 20 10007 0 0 3 20 3 0008 0000 0008 000872 001192 22 17 2 19 19 22 00 0010. 0 0 2 21 22 23 24 25 26 27 28 29 000 100-000 0 0 1 00 00-00000 o 1.2 MEAN

PERCENTAGE OF DATA VALID - 93.5

PERCENTAGE OF DATA INVALID . 3.2

PERCENTAGE OF DATA UNAVAILABLE . 3.3

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS MILLION

	S	TATIO	N - S	W NO	1404	9	156	VICTO	RIA S	T NOR	TH S	ARNIA				¥:0	NTH -	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	٥	0	0	0	0	0	0	٥	0	0	0	٥	0	٥	0	0	3	0	0	0	0	0	c	
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8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő	ŏ	ŏ	0	ŏ	
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24	0	0	0	0 2 0	0	0	0	0	0	0	0	,	0	0 0 2 0	0	0	٥	0	0	0			2	2	0
25	2	2		2	2	2	1		0			0	0	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	٥	0
27 28	0	9	0	0	0	0	0	0	1	1	1	2	2	2	1	2	3	14	4	3	3	2	2	2	
28	2	1	- 4	0	0	0	0	0	0	••••	••••	0	٥	0	0	0	٥	0	0	0	0	0	0	0	0
29 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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MEAN	1	1	1	1	1	1		1	2	2	2	2	2	2	2	1	1	1	1	1	2	1	1	1	1.2

PERCENTAGE OF DATA VALID - 92.6

PERCENTAGE OF DATA INVALID - 7.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. """ INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- --- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	S	TATION	- \$1	NO.	14049	)	156	VICTOR	ILA ST	NORT	H S	ARNIA				MON	ITH .	APR	80						
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	****	0	0	0																					
2					****																		0		
3	0	0	0	0	0	0	0	1	1		0	0	0	0	0	0	0		-2-5		0	0	×	×	
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MEAN	0	0	0	1	1	1	1	1	2	2	2	2	2	1	,	0	0	1	i	1	1	1	1	0	0.9

PERCENTAGE OF DATA VALID - 90.3

PERCENTAGE OF DATA INVALID . 9.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POI	LUTAN	т -	SULP	HUR DIO	KIDE								OMITIS		V			•						
	51/	TION	. SW	NO	14049	156	V	CTORIA	şt	NORTH	SAR	NIA				HONT	н - а	47A	80						
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PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	· s	ULPH	HUR DIO	IDE							U	NITS	. 0.0	1 PAR	175,MI	LLIOI	N						
	STA	TION .	SW	NO	14049	156	VIC	TORIA	ST	NORTH	SAR	NIA				NON	H - J	UN	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20 .	21	22	23	200	EAN
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10 11 12 13 14 15 16 17 18 19	0 0 1 4 2 1 2 1 1 1 1	0 0 1 3 4 1 0 1 1 1	0 0 0 2 3 3 1 0 1 1 1	0012210101	0	0 0 2 4 1 1 0 0 0	0 1 2 2 1 1 3 2 0 0	3 1 1 0 8 2 1 0	0	0 3 1 1 0 3 1 15	0721001170	0 6 12 1 0 0 0 1 16 0	1 7 11 1 1 0 1 1 1 6 0		10 8 1 0 1 1 15	1 6 6 1 0 4 1 6	17 3 1 0 10 1 0 1	1 2 13 3 1 0 0 11 1 0 0 0	0 2 9 5 1 0 16 1	0 2 3 4 1 0 15 0	0 2 3 2 1 0 17 0 0	21 00 00	31105001	0 1 4 1 1 0 1 0 0 1	0 2 5 3 1 0 5 1 4 0
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PERCENTAGE OF DATA VALID - 99.4 PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

														E007/50 00												
	s	DITAT	N - S	W NO	14049		156	OTOLV	RIA S	T NORT	H S	ARNIA				MO	NTH -	JUL	80							
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PERCENTAGE OF DATA VALID - 96.2 PERCENTAGE OF DATA INVALID - 3.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "- " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	. s	ULPH	UR DIO	XIDE							,	UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	STA	TION -	SW	NO	14049		156 \	ICTORI	A ST	NORTH	SA	RNIA				MON	TH -	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 1 1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100002000	0100101000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	õ	0 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 2 0 2 2 0 12 0 0 0	0 4 0 1 3 0 2 1 0 0	0 21 0 1 4 1 1 1 0 0	9 0 0 5 1 0 3 0 0	0 3 0 0 4 1 1 1 0 0	0 6 0 0 3 2 0 0 0 0	0 4 0 0 0 0 0 0	0 1 0 1 5 3 1 0	0 1 0 1 1 4 1 0 0 0	0 1 0 6 1 0 0 0	0 1 0 3 0 0 0	0 1 0 0 0 0 0 0 0	0 1 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 3 0 0 2 1 2 0 0 0
11 12 13 14 15 16 17 18 19	0 1 1 1 0 0 0 1	0 1 0 2 1 0 0 0 1	0 1 0 0 0 0 2	0 1 0 3 1 0 0 0 0 3	0 1 0 1 1 0 0 0 0 2	0 2 0 1 1 0 0 0 0 1	0100100211	0101100511	1 1 0 0 1 1 2	1 1 6 1 0 0 0 1 0 4	1 1 4 1 0 0 0 1 0 2	000000000000000000000000000000000000000	9 1 2 1 0 0 0 1 4 4	8 1 2 1 0 0 0 1 6 9	4121000138	4 1 0 0 0 1 4 1	2 2 0 0 0 0 3 1	4 2 0 0 0 0 0 0 2	3 1 2 2 0 0 0 1 1 0	2 1 3 1 0 0 1 1 1 0 0	3 1 0 0 0 1 1 0	1 2 1 0 0 0 1 1 0	1 2 1 0 0 0 0 1 0		1 0 0 0 1 1 2
21 22 23 24 25 26 27 28 29 30	0000122001	000000000000000000000000000000000000000	0010021003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 0 1 0 0 1	0 0 1 0 0 0 0	0 - 0 - 0 0 0	0000	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0005212015	0 0 0 5 2 1 2 1 1 2	0 0 0 3 2 1 2 3 1 3	1 0 0 3 2 1 2 3 1 3	1 0 0 2 3 2 2 1 3 5	0 0 0 2 3 2 2 3 1 2 8	0 0 0 2 3 4 2 1 1 1 2 1 1	0 0 2 7 6 4	0 0 0 2 4 10 10 10 5	0 0 0 2 2 10 4 2 1 3	0 0 0 1 2 4 1 1 1 4	0 0 0 2 4 4 1 1 1 7	0 0 0 1 3 3 1 0 2 7	0001231328	2 3 2 1 2 4
31 MEAN	11	3 1 -	2	1	0	0	0	0	0	0	0	1	1	5 2	5 2	7	4	2 2	0 2	1	6	9	13	7 1	3 1.2

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH . SEP 156 VICTORIA ST NORTH SARNIA STATION . SW NO 14049 24 MEAN HOUR DAY 3062000. 80-000-1100.00001 12 13 14 15 16 17 18 19 20 . 0100-002 0-000000 -000000000 0 12 6 0 8 0 11 9 22 23 24 25 26 27 28 29 30 -00000000 

PERCENTAGE OF DATA VALID - 97.4

MEAN

PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS . O.O. PARTS/MILLION POLIUTANT - SULPHUR DIOXIDE MONTH - OCT 156 VICTORIA ST NORTH SARNIA STATION . SW NO 14049 24 MEAN HOUR 16 0 0 0 0 5 0 1 12000010-05 2000000-04 11 000010201 13 00 00 0 1 0 1 0 3 00000-0-00 2 3 4 5 6 7 8 9 10 000000-00 020. 00000-4000 00000-4 0000000-00 000. 000-0. 12 13 14 15 16 17 18 19 20 0000000-0 0 1 000-00-009 0000-0000 000-000007 000-00. 000000-006 0000-00000 22 23 24 25 26 27 28 29 30 ¢ \$ 0.8 

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 FARTS/MILLION

	S	TATIO	N · SW	NO	14049	9	156 V	ICTOR	RIA SI	NORT	TH S	ARNIA				Alo:	тн -	NOV	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	İĪ	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0		0	0	0	0	0	٥	0	0	٥	0	О	0	٥	٥	٥	0	٥	0	0	1	1	o
2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	٥	0	υ	٥	0	0	0	0	0	0	٥
3	0 0 5	10		0	0	1	1	1	1	• • • •	8	13	9	В	8	3	3	3	4	4	4	3	****	4	4
2	•	10	10	1	0	0	0	0	0	0	0	0	Ú	0	0	٥	0	٥	0	0	٥	0	0	0	1
3	1	6	1	0	0	1	1	1	1	0	0	0	o	0			1.	1	1	1	0	0	0	0	1
•	0	4		2	3	0	2	3	3 6	9	3	3	3	3	2	2	5	7	5	7	6	4	2	2	3
á	ő	0	•	ō	0		0				7	4	500	3	3	1	0	3	0	0	0	0	0	0	3
2	ŏ		0			0	0	0	0	0	0	0	٥	0	0	0	C	0	0	0	0	0	0	0	0
10	****			0	2	13	****	0	0		****	****			• • • •	***		• • • • •	••••				****	••••	
											••••	••••		3.	1	1	1	1	1	0	0	0	٥	0	•••••
11	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	1	2	3	2	2	0
12	3		2	3	2	1	2	1	2	2	1	1	٥	1	ō	1	Ċ	2	1	1	1	3	3	2	2
13	1	2	2	3	13	12	15	10	10	7	7	5	11	8	10	18	1.1	4	3	3	5	3	2	- 2	,
14	2	2	2	1	1	1	9	1	1		1	0	0	o	0	0	0	٥	ō	3	ō	o	Q	0	1
15	0	1	1	0	1	0	20	0	0	1	0	1	1	1	1	1	1	0	1	1	1	ī	1	1	1
16	0	0	2	3	2	2	2	2	2	5	4	3	2	2	2	1		1	1	1	4	1	1	1	2
17	1	1	1	1	0	0	0	0		0	1	1	1	1	1	2	t	1	1		•	1	1	- 1	1
15 16 17 18	1	1	1	1	1	0	0	0	0	0	a	0	Q	0	1	0	0	1	1		- 1	2	1	1	1
19	1	0	0	0	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	•	1	2	1	1
20	1	1	2	2	4	6	7	5	8	13	14	14	16	13	15	17	10	10	12	11	11	21	23	17	11
21	13	18	7	7	5	5	2	2	2		t	1	1	1	1	1	1	1	2	1	1	1		1	3
22 23	0	0	0	1	1	1	2	5	9	16	15	19	13	18	21	22	17	8	12	14	18	20	21	27	12
23	17	11	9	6	6	4	2 2 2	3	6	9	14	7	8	16	5	4	6	4	2	3	4	6	3	2	7
24	1	1	- 1	, t	1	1	2	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25	1	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	ì	1	0	0	1	1	0	0
26	0	0	0	0	0	0	0	0	1	1	1	2	3	2	2	3	8	2	2	1	1	1	1	1	1
27	1	1	1	1	1	2	2	2	1	3	1	1		1	0	0	0	o	0	0	0	1	1	6	1
24 25 26 27 28 29	10	11	7	9	2	2	2	3	2		3	4	5	5	4	3	3	3	4	3	2	2	2	2	4
29	1	1	1	1	1	1	1	1	1	1	.1	1	1	1	1	1	1	\$		1	2	5		1	1
30	3	1	1	1	1	1	1	1	2	2	5	9	14	9	2	2	14	20	20	20	15	7	4	3	7
MEAN	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2.5

PERCENTAGE OF DATA VALID - 95.3 PERCENTAGE OF DATA INVALID - 4.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1, \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 5	ULPH	IUR DIO	SCIX							ı	JNITS	• 0.0	01 PA	015/4	1110	N						
	STA	TION -	SW	NO	14049		156 V	CTOR	IA ST	NORTH	SA	RNIA				MON	TH - 1	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	2 0 1 1 1 1 1 1 1 0 1	1 1 1 1 2 0 1	1 0 1 0 1 1 1 4 0 1	1 0 1 0 1	1 1 0 1 1 1 1 3 0 1	1 1 1 0 1 1 5 0 1	1 2 1 0 1 1 1 1 1 1 0 1	1 10 1 0 1 1 1 1 8 0 1	2 3 1 0 1 1 2 2 1 1	1 1 0  5 8	2 1 1 0 1 1 2 9 1 1	1 1 1 1 1 5 1 1	1 0 1 1 1 2 0	1 1 1 1 1 0	1 0 1 1 1 0 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 0 2 0	1 0 1 1 0 4 1	0 0 1 2 1 1 0 2 0	0 0 1 2 1 1 0 1 0	1 0 1 6 1 1 0 0 1 0	0 0 1 3 1 0 0 0 0 0	1 0 0 0 1 0	0 1 0 2 1 1 0 0 1 0	1 1 1 1 3 1 1 1
11 12 13 14 15 16 17 18 19	0 0 2 0 0 0 1 2 1 0	0 0 0 0 1 1 0	0 0 2 0 0 0 1 1 1 0	1 0 0 0 0 1 1 0 0	0 0 0 1 2 0 0	200001200	0 1 0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1 1 0 0	0 1 1 0 1 1 0 0	0 2 6 0 1 0 1 1	0 7 0 0 1 0 3 0 1 0	0 6 3 0 2 0 5 0 1 1	0 4 0 0 1 1 8 0 1 1	0 3 0 0 1 1 4 0 1 1	0 3 1 13 0 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 2 1 12 1 1 1	0 1 1 2 1 5 1 1 1	0 0 1 0 1 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 1 1	0 0 1 8 1	0 0 0 1 1 6 1 1	00000115	0 1 1 0 5 1 1 1
21 22 24 25 26 27 28 29	1020051241	1 0 2 0 0 13 1 2 4	1 0 2 0 0 13 1 2 4	1 0 3 0 1 9 1 2 4 1	1 1 4 0 1 1 3 1 3 3 1	1 5 0 0 13 1 3 3	1 6 0 0 13 1 3 3	1 5 0 0 13 1 2 2	1 1 4 0 0 8 1 5 2 1	1 0 3 0 0 5 1 7	0 2 0 0 5 2 8 1	1 0 0 3 2 13 1	1 2 1 0 1 3 1 13	1 2 1 0 1 2 1 1 3 0 1	1 1 0 1 1 0 1	1 0 2 0 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1	103012	1 0 6 0 1 2 1 15 0 1	0 0 5 0 2 2 1 1 1 0 1	0241421501	0341321501	0 2 2 1 2 2 1 5 0 1	2 2 1 4 0 1	0 2 2 1 4 2 1 4 0 1	3 0 1 7 1 1
31 MEAN	1	0	1	1	1 1	2	1	1 2	1	1 2	1	1	2	2	1	1	1	C 2	0	0	0 2	0	0	o 1	1.4

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

-00001200				
STATION - SW	NO 14049 156 VICTORI	A ST NORTH SARNIA		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	28	1.2	3	13
FEB	27	1.2	10	22
MAR	29	1.2	8	28
APR	27	0.9	3	20
MAY	31	1.1	7	17
JUN	30	1.9	8	30
JUL	30	1.7	7	32
AUG	31	1.2	4	21
SEP	30	1,3	5	19
OCT	31	0.8	9	16
NOV	28	2.5	12	27
DEC	31	1.4	7	15
YEAR	353	1.4	12	32
	<u>₩</u> =₹'			

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

LLUTANT -	SULPHUR I	DIVOID	E						UNITS	- 0	.01 PA	RIS/M	ILLION		
TATION -	SW NO 140	049	156	VICTORIA	ST N	ORTH	SARNI	A							
MONTH	00 TO 05	06 TO	10	11 TO 15	16	TO 20	21 T	0 25	26 TO	39	40 TO	49	50 SOVER	TOTAL	
JAN	646		19	2	4	0		0		0		٥	0	667	
FEB	615		19	8		6		3		0		٥	0	651	
MAR	638		28	18		4		0		1		0	0	689	
APR	626		17	5		2		0		0		0	0	650	
MAY	706		15	11		3		C		٥		0	0	735	
JUN	652		34	17		11		1		1		0	0	716	
JUL	651		34	23		4		3		1		0	0	716	
AUG	702		23	6	i	0		1		0		0	0	732	
SEP	645		45	9	í	2		0		U		U	U	/01	
ост	687		19	17		3		0		0		0	0	726	
NOV	592		46	26		16		5		1		٥	0	686	
DEC	700		17	19		0		0		0		0	0	736	
YEAR	7860	1	316	161		51		13		4		D	0	8405	
REQUENCY	DISTRIBUT	ION BY	PERC	ENTILES			,	ONCEN	TRATIO	NS					
	OF DATA				20	FREO	UENCY			N. P	ERCENT		B 99	MAX	ARI
	VALID	MIN		10	30	9	•	,,,	90		,,	-		11.70	,

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS MILLION 242 INDIAN ROAD SOUTH, SARNIA MONTH - JAN HOUR 2 3 4 5 6 7 8 9 1000-0000 9000-0000 N-0000400 500. 000-0-50 2 2 7 2 2 2 2 7 DATA INVALID 12 13 14 15 16 17 18 19 20 DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID INVALID -...3 DATA INVALID 22 23 24 25 26 27 28 29 30 DATA INVALID 1 3 2 1 00-00000 -0000000 4 0 5 2 × 0 2 ò 

PERCENTAGE OF DATA VALID - 54.6

MEAN

PERCENTAGE OF DATA INVALID - 45.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

1.1

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS . 0.01 PARTS/MILLION STATION 242 INDIAN ROAD SOUTH, SARNIA NO 14062 MONTH . FFR 24 MEAN 1 2 3 4 5 6 7 B 9 10 0 2 3 2 1 2 1 2 1 000000-.000000 8 3 2 2 . 2 3 1 4 0 5 12 13 14 15 16 17 18 19 20 13 1 0 0 2 8 10 1 0 0 1 5 9 2 0 3 4 1 22 23 24 25 26 27 28 29 0 3 0003. 0 0 1 0 3 2 2 O o MEAN 1.2

PERCENTAGE OF DATA VALID - 97.3

PERCENTAGE OF DATA INVALID . 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - C.O! PARTS/MILLION

	PC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	MINE!	SULF	HUR U	OVIDE	•																			
	51	ATIO	v · s	W NC	1406	2	242	INDIA	ROAD	sour	rH. S	ARNIA				MO	TH -	MAR	80							
HOUR DAY	1	, 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	41
1	0	0	0		0	0	0	0	1	1	2	2	DATA	1 NVA	10 -	2	1		••••	••••	• • • •		••••	••••		1
1	4	- 5	4		1 3	2	3	5	5	5	4	3	9	8	11	10	8	5	6	6	6	2	1	1		5
4	- 7		0		ŏ	ā	1	1	2									3	2	2	1	3	1	2		1
- 3	3	,			ŏ	õ	ò	ò	ō	0	0	٥	1												****	
ă							****				2	3	3	4	7	7	3	1	1	1	0	0	0	0	****	
7	0	0	0		0	0	0	0	1	2	2	4	3	3	3	4	3	2	2	2	1	1	1	1		1
a	ĭ	- 1	ő		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1
9	ò	Ó	ō	1	0	0	2	1	1	3	6	4	3	3	3	2	2	1	2	2	1	1	0	1		2
10	ĩ	1	1	,	0	0	0	0	1	3	5	8	1.1	9	4		2	5	1	1	0	0	0	0	1	2
11	0	0	0			0	0	٥	٥	1	1	1	1	1	1	1	1	0	0	0	0	0	0			0
12	0	0	0			0	0	O	1	0	٥	0	0	0	0	0	o	0	Ö	0	0	0	0	Ġ		ŏ
13	1	1	1	1	0	0	0	0	0	0	o	0	٥	٥	U	Ü		۰	Ÿ	٥	ÿ	×	ö	ŏ		ĕ
14	1	0		- (		0	0	0	0	0	0	1	1	1		****	- 1	- 1	1		- 1	0	ŏ	ö		×
15	0	0				0	0	0	1	- 1	1	1	- 1	- 1	. 1	1	- 1	- :	Ÿ	ò	0	0	ŏ	ŏ		·
16	0	٥	0		0	0	0	1	1	1	2	2	2	2	2	1	1	1	1		1	0	ŏ	ŏ		'n
17	1	2	1		1	3	0	0	0	0	0	0	0	0	0	. 0	·	0			ŏ	2	ŏ	ă		ř
18	0	0	0		0	0	0	0	0	0	1	1	1	1	_ 1	- 1	1	1	1	2	2	2	2	2		•
19	1	2	1	3	1 1	0	0	. !	2	- 2	6	12	15	14	11			2	2				_			
20	3	1	1			٥	0	1		4		12	15	۰	- 11		-				200.00			700 010	2500 0 1	
21				****	****		****	****			****	****	****						****	٥	٥	0	0			•
22	0	0	0		0	0	0	0	0	0	0	0	0	0	0	٥	٥	٥	0	0	0	0	0			0
23	0	0	0		0	0	0	0	0	0	0		2	2	2	1	1	,	1	0	٥	0	0	0		0
24	0	1	1	9	0	1	1	1	1	2	2		2	1	1	1	1		1	٥	0	0	0	0		- 3
25 26	0	0				1	1	1	1	1	1	1	1	1	- 1	2	. !	1	1	1	٥	0	0	0		- 1
26	0	0	0	(		0	0	1	1	1	1	1	1	1	1	2	1	1		_ 1	1		- 1	č		- 1
27	1	1	1			٥	1	1	2	2	3	3	2	2	2	- 1	****	3	3	2	1	. 1	1	2		- 1
28	0	0	٥	(	0	0	0	0	1	1	2	2	3	3	3	3	3	2	2	2	2	2		•		- 1
28 29	2	1	1		1	1	1	1.	1	2	2	2	2	2	2	- 1	2	2	- 1	_ 1	1	1	2	2		-
30	1	1	1		1	1	1	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	4	-	,	•
31	1	1	1	9	1	1	3	1	1	1	1	1	2	2	2	1	2	2	1	1	1	1		1	-	1
MEAN	1	1	1		0	٥	0	1	1	1	2	2	3	3	3	2	2	2	1	4	1	. 1	٥	1		1.2
PERCE	NTAGE	OF D	ATA V	ALID	- 87.	1		PERCI	ENTAGE	OF	DATA	INVAL	10 -	12.9		P	ERCEN	TAGE	OF DA	TA UN	AVAIL	ABLE	. 0.	٥		

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTA	INT -	SULPH	IUR DI	OXIDE								UNITS	- 0.	01 PA	RTS/M	11110	IN						
	ST	ATIO	4 - SW	NO	14062		242 1	NOIAN	ROAD	SOUTH	4, 54	RNIA				MON	TH - 1	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9 10	001000	0010010002	000000000000000000000000000000000000000	0011000100	20000100	3000	1 1 0 0 0 0 0	0022001010	0 1 2 3 0 0 1 0 4	0 1 2 4 0 1 3 0 4 1	1 2 1 1 0 3 13 1 1 2	0 3 1 1 0 4 4 2 0 1	0 0 5 1 2 0 1	0 0 4 0 1	1 2 0 1 0 2 0 1 0 4	1 3 0 1 0 2 0 1 1 4	000000000000000000000000000000000000000	2000000	1 20 0 1 0 0 1 3 2	0 1 0 0 1 0 1 1 2 2	0 1 0 0 0 0 1 1 2 1	0100101124	0 1 0 0 0 3 1	0	0 1 1 1 0 1 1 1 1 2
11 12 13 14 15 16 17 18 19	0 0 0 1 0 0 2 0 0	3000100011	0	1 0 0 0 1 0 0 1 1	500000000000000000000000000000000000000	2000000110	2000100100	1000100201	1 1 0 0 1 1 3 0	1 0 0 1 0 2 1 5 1	000000000000000000000000000000000000000	2 0 0 2 0 4 1	200020414	0000	0 0 0 1 0 3 1 4	000000000000000000000000000000000000000	4 0 0 0 0 0 6 0	20000402	300000000000000000000000000000000000000	0 0 0 0 2 1 2	200200	000300102	000300201	0 0 0 1 0 0 0 3 1 1 1 1	0000100212
21 22 23 24 25 26 27 28 29 30	0 3 2 2 0 0 0	4 3 2 0 0 0 2 2	3 2 3	2 3 3 2 0 0 0	1 2 2 3 0 0 0 2 2	3 3 3 2 0 0 0 0	2 2 1 3 0 0 0	3 3 1 2 0 0 0 2 2 2	2 2 3 3 0 0 0	1 5 3 2 4 0 0 0 2 3	0 8 2 3 0 0 0 0 0 0 2 3	0 7 4 2 0 0 2 1 3	0 11 2 2 1 0 0 3 2 3	9 2 3 1 0 0 3 2 3	1 4 4 2 1 0 0 3 2 4	2 5 2 3 1 0 0 3 2 4	1 4 4 2 1 0 0 3 2 4	2534200224	1 4 4 2 2 0 0 2 2 3	2624300223	1 5 4 2 1 0 0 2 2 3	25 23 1 0 0 2 2 3	1 4 2 2 0 0 0 0 2 2 3	3 3 1 0 0 2 2 4	4 3 2 2 0 0 1 2 3
MEAN					1		1		-1	2	2	2	2	2	1	1	1	1	1	. 1		1	1	1	1.2

PERCENTAGE OF DATA VALID - 96.1

PERCENTAGE OF DATA INVALID - 3.8

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION .	SW	NO	14062	2	42 IN	IDIAN	ROAD	SOUTH	, SARI	AIN				HON	TH - 1	MA Y	80						
HOUR	1	2	3	4	5	е	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3	3 0 1	3 0 0	3 0 0	3 0 0	3 0 0 0	3	0	3 0 1 2	3 0 2 3	3 2 2 8	3 3 2 3	3 4 2 3	3 2 2 2	3 2 2 2	3 2 2	3 2 2	3 2 2	3 2 2	2 2	0 2 2	1 1 3	1 2	1 1 2	1	2 1 1
5 6 7 8 9	3 1 0 0 1 1	3000	3 0 0 0 1 0	300010	3 0 0 0 1 0	0 3 0 0 0 1 0	4 0 0 0 1	3 0 0 1	0 0 1 1 5	0 0 1 2 8	5 1 0 1 2 4	5 1 0 1 2 3	3 2 0 1 2 4	202	2 0 0 2 4	3 2 2  2 5	3 2 2 0 1 2	3 2 0 2 2 5	3 1 0 2 2 3	4 3 0 2 1 3	1 0 1 1 2	0 0 1 1 2	6 2 0 0 1 1 5	3 1 0 0 1 1	3 1 0 1 1
11 12 13 14 15 16 17 18	22000	1 1 0 0 0 1 0 1 1 1	1 1 0 0 0 1 1 1 1 1 1	1 1 0 0 0 1 1 1 0	200000111100	2000011110	2000011110	4000011120	5 1 0 1 1 2 2 3 0	2 1 0 0 1 2 2 2 3 1	2 1 0 0 1 2 2 4 2 1	2 1 1 2 2 2 2 1	1	1 1 2 2 2 2 2 1	1 2 1 1 2 2 1 2 2 2	1 2 1 2 2 2 1 1 2 2	1 1 2 2 2 2 1 1 2 2	1 1 2 2 2 1 1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100011111111111111111111111111111111111	000011111111	0 0 0 0 1 1 1 1 1 1 1 1 1 1	2:1111111111111111111111111111111111111
21 22 23 24 25 26 27 28 29	1 5 4 3 2 0 0 0 1 2	1 4 4 1 2 0 0 0 0 1 2	1 3 3 1 2 0 0 0 1 1	1 2 2 1 1 0 0 0 1 1	1 2 1 1 1 0 0 0 1 1 1	1 2 1 1 1 0 1 0 1 1 1	1 2 1 1 1 0 2 0	2 3 2 1 1 1 2 1 1 2	2 4 3 1 1 1 1 1 1 9	2 3 3 2 1 1 2 2 1 7	2 4 3 2 1 1 2 4 1 7	2 3 3 1 1 2 5 2 6	2 4 3 2 1 1 2 2 1 8	2 5 1 0 1 3 1	2 4 1 2 1 1 3 2 2	2 3 3 2 1 1 3 2 2 2	2 3 3 2 1 1 1 2 2 6	2 3 3 2 1 1 2 2 3	3 3 3 2 1 1 2 2 3 1	2 3 3 2 1 1 1 3 3 1	3 3 2 1 1 1 3 0	6 3 2 2 1 1 0 1 4 0	5 4 2 2 1 0 0 1 4 0	4 4 2 2 1 0 0 1 2 0	2 3 3 2 1 1 1 2 3
31 MEAN	0	1	0	1	1	0	0	0	1 2	0 2	3 2	0	0	0	0	0	o. 2	0 2	0 2	0	0	0	0	0	0 1.5

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	S1	TATION	- SW	NO	14062	3	242 1	MAIGM	ROAD	SOUT	H, 5/	ARNIA				MON	TH -	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9 1 0 1 1 1 2 1 3 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32200 112410	0 0 0 0 0 3 2 2 0 0	32200	0000	321000	03000 1000 100040	2 1 1 1 1 1 1 4 2 1	2 1 1 1 2 2 2 2 1 1	0 0 0 2 2 1 1 2 1 3 4 2 1 1	2 1 1 0 2 3 7 3 2 1 1	000000000000000000000000000000000000000	00011	2 11 9 4 1 2	0 0 1  8 1 1 1 2 2 8 12 2	0 0 1  5 2 1 2 1 2 8 4 4	3 2 1 3 1 2 5 4 4 3 1 0	0 2 1 1 2 1 2 5 5 3 1 0 0	32121	2331111224455	6 1 0	221111111111111111111111111111111111111	020.224011	0 1 0 3 2 2 0 1 1 1 2 3 2 1 0	0 1 0 4 2 2 0 1 1 1 3 4 2 0 0	3 2 1 1 1 1 2 4 3 1
17 18 19 20	0 2 1 1	1 1	0 1 0	0 1 0 0 0	0 2 1 0	0 3 1 1	3 6 1 2	7 8 1 2	10 6 2 2 1	9 4 4 2	6 3 11 2	4 3 11 2	3 10 2	10 1	3 1	2 2 1	1 0	0	0 2	3 2 1 0	0	1 0	0	1 0 1	3 3 1
22 23 24 25 26 27 28 29 30	1 1 0 0 0	1 1 0 0 0	1 2 1 3 0 0 0	1 2 0 0 0	0 1 2 0 3 0 0 0	012030000	2040000	6000	1 10 2 4 7 0 0	3 11 2 7 9 0 0 2	362980030	9 6 22 4 0 0 3	9 4 5 0	6 7 4 0 5 4	11 20 3 0 8 2		6 3 8 30 2 0	26 3 3 28 2 0 2 1 0	3 3 9 2 0 1 0 0	2233320200	3 2 2 1 0 1 0 0	0 1 0 0	1 0 1 0 0	1 1 0 0 0 0	2 4 7 3 0 1 1
MEAN	1	1	1	1	1	1	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	1	1	1	2.0

PERCENTAGE OF DATA VALID - 93.9 PERCENTAGE OF DATA INVALID - 6.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	-	LLUIM	••	30 5-1	101 010	~										-									
	\$1	NOITA	- SW	NO	14062	24	2 1	NDIAN	ROAD	SOUT	H. SA	AINA				MON	TH ·	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	AN
1.	0	0	0	0	0	0	0	1	1	5	3	2	6	4	6	6	7	7	9	7	5	5	3	4	3
2	5	1	1	1	0	0	1	1	1	0	0	0	0	0	٥	٥	0	0	0	0	0	0			Ÿ
3	0	0	0	0	0	0	0	1	1			0	1	1	1	2	2	2	2	2	2	2	1	3	2
4	5 0 1	1	1	1	1	1	1	2	7	10	10	4	5	3	3	3	3	4	0 2 3 2 2	3 2	3	3	3		3
5	3	3	3	3	2	2 2	3	3	3	3	5	6	2	2	2	2	2	2	2	2	2	2	1	1	3
6	2	2	2	2	2	2	2	2	2	2	1		2	2	1	2	2	2		2	1	1	1	1	
7	1	1	1	1	1	1	1	4	4	6	7	9	2	2	1	1	2	2	2	2	2	2	2	2	- 3
8	****				0	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1	1.	1	1	2
9	1	1	1	1	1	1	1	1	1	- 1	1	1	1	3	1	. 1	3	18	31	11	3	2	1	1	2
10	î	1	1	1	1	1	1	2	3	6	11	19	18	7	16	24	5	4	4	4	3	3	2	2	6
11	3	5	5	3	2	2	3	9	9	6	4	2	2	2	2	2	1	0	0	0	0	000	0	0	3
12	0	G	0	0	1	3	3	2	1	ï	- 1		****		2	£	3	2	0	0	ç	- 2	ŏ	ŏ	1
13 14 15 16	0	000	0	0		2		3	4	3	3	3	2	2	2	2	2	1	1	0	0	0	·	٠	,
14	0	0	0	0		1	2	3	5	11	6	10	1.1		7	3	4	3	2	2	1	2	í	1	,
15	1	2	3	2	1	1	2	3	4	3	4	4	2	1	1	2	3	****	3	2	2	1	2	2	- 1
16	1	2	1	1	1	2	4			1	3	4	4	5	, 0		9	4	7	8	4	3	- 2	1	7
17	2	2	2	2	1	2	4	3	3	4	4	3	3	3	3	3	2	1	1	1	1	- 1	1	1	- 1
17	1	1	1	1	1	1	2	4	4	4	4	15	8		5	17	4	3	4	2	2	- 1	1	4	2
19	0	0	0	0	0	0	1	3	6	7	5	6	3	3	3	2	2	2	1	2	2		1		2
20	.1	1	1	1	1	1	1	2	5	4	2	4	3	3	3	3	3	6	6	3	4	4	3	3	3
21	2	3	5	4	5	2	3 0 0	5	5	4	3	4	3	3	3	3	3	2	1			0	1	0	3
22 23 24 25 26 27 28	0	0	0	0	0	٥	0	0	0	1	0	0	0	0	0	- 1	ŏ	0	C				ő	ŏ	ŏ
23	D		0	0	٥	1	0	0	0	0	0	0	0	0	1	3	0	6	8	0	0	2 2	ĭ	1	3 2
24	0	0		0		٥	o	3	5	6 5 2	4	3	3	4	3	3	3	3	3	- 3	2	5	ż	2	2
25	1	1	1	1		0	2	2	4	2	2			2	3 2	2	2	2	2	2	2	5	2	2	2
26	2	2	2	2		2	2		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2
27	1	1	1	- 1	2	2	2	2	2		2	2	1		2	2	2	2	2 2	2	- 1	2	- 7	7	ī
28		1	1	2	2	2	1		1	1	1	7	- 2	7	0	5	8	3	3	3	2	2		4.	3
29		1	1	1	1	1	1		1	2	3		4	2	2	7	Ŷ	2	2	2	2	2	2	•	ĭ
30	,	1	1	1	1	1	1	,	1	1		1:	1.	2	2				· <del></del> -			-	-		
31	1	1	4	1	1	1	1	1	1	31	2	2	2	3	3	3	3	2	2	****		1	1	1	2
MEAN	1	1	1	1	1	1	2	2	3	3	3	4	3	3	3	3	3	3	3	2	2	2	1	1	2.2

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- \$	ULPH	UR DIO	XIDE								UNITS	. 0.	01 PA	RTS/MI	LLIO	N						
	STAT	ION .	SW	NO	14062	24	2 INC	MAI	ROAD	SOUTH.	SAF	RNIA				MON	TH - A	LUG	80						
HOUR	Ĩ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0	0 1 1 1 0 1 1 0	0 1 1 1 1 0 1 1 1	1 1 1 0 2 2 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 0 2 3 1 0	1 1 1 1 0 3 2 1 0	1 2 2 2 1 0	0 1 1 1 2 2 1 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 2 1 3 7 1 0	0 1 1 1 4 4 1 0 0	3	33200	1 1 2 1 4 3 3 0 0	1 1 1 4 3 2 0 0	3 3 1 0 0	1 1 7 3 5 1 0 0	1 1 1 2 3 4 1 0 0	1 1 1 3 3 1 0 0	1 1 1 1 2 2 1 0 0	1 0 1 1 1 2 1 1 0 0	1 0 1 1 2 1 1 0 0	1 1 1 1 1 1 0 0	1 1 1 2 3 1 0 0 0
11 12 13 14 15 16 17 18 19 20	0 0 0 1 1 0 0 1 1 1	0 0 0 1 1 1 1 1	0 0 0 1 1 0 0 1 1 1	0 0 1 1 0 0 1 1 1	0 0 0 1 1 1 1	0 0 0 0 0 1 1 1	0 0 0 4 1 0 0 1 1 1	0003000111	5 0 0	0 1 4 0 0 0 1 1 ***	0 2 2 0 0 0 1	0 0 2 2 0 0 0 1 3 5	9 0 3 2 0 0 0 6 4 5	10 0 3 2 1 0 4 7	4 0 3 2 0 0 1 5 6 4	2033101352	3 1 0 1 2 4 2	1023101222	1 0 1 2 1 0 1 1 2 2 2 2	1 0 1 2 1 0 1 1 1 1	0 0 0 1	0 0 1 1 0 0 1 1 1 1 1	0 0 1 1 1 1 1	0011	1 2 1 0 0 2 2 2 2
21 22 23 24 25 26 27 28 29 30	1000102231	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10000002221	1 1 0 0 0 1 2 2 1	1 0 0 0 0 1 2 2 2	0100001222	0100001221	0 1 0 0 0 1 1 2 2 1	1 0 0 2 3 3 2 2 1	1 0 0 8 4 5 2 2	1 0 0 6 4 5 2 2	1 1 0 2 8 2 5 3 3	1 0 3 5 3 5 5 3	2 1 0 2 4 5 5 6	0 4 4 4 6 3 2	1 0 0 4 5 5 6 9 3 8	1 0 2 8 8 7 9 3	1 0 0 1 9 13 5 5	1 0 0 1 3 6 5 4 2 1	1 0 0 1 4 5 3 2	0 0 0 1 4 3 2 1 1	0 0 0 1 0 3 3 2 1 0	0001033210	0 0 0 1 0 2 2 2 1 0	1 0 0 0 1 3 3 3 4 3 3 2 2
31	1	0	0	0	3	1	1	0	0	0	1	1	1	1	2	3	1	1	į	1	1	0	1	1	1
MEAN	1	1 .	1	1	1	1	1	1	1	1	2	2	2	3	2	3	2	2	2	1	1	1	1	1	1.4

PERCENTAGE OF DATA VALID - 98.4 PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION .	SW	NO	14062		242 IN	NAIDN	ROAD	SOUTH	I. SAR	NIA				MON	тн - :	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	KEAN
1 2 3 4 5 6 7 8 9	010000000	0000000000	000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 1	0000000001	000000001	0 0 0 1 0 0 0	0 0 0 1 0 0 0 1 1 0	00020004+0	1 1 2 2 0 0 0 1 2 4 0	0 0 0	0 0	0 0 0	1 0 2 7 0 0 0 5 0 0	70000	1 2 0 0 0 2 0 0	1 2 0 0 0 2 0 0	1 0 0 0 0 0 0	1 0 0 0 0 0 0 1	0 0 0 0 0 0 1	10000000	1 0 0 0 1 0 0 0
11 12 13 14 15 16 17 18 19 20	040000000	0 0 0 0 0 0 1	000000000	30000000	0 0 0 0 0 0 0 1	300000001	4 0 0 0 0 0 0 0 0 1	30000000	300000000	500000000000000000000000000000000000000	0050001	0 0 1	1 0 0 8 0 2 0 3	100030303	10000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0000-0000	000000000	000000001	000000001	000000001	00000001	100000001	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30 MEAN	1000000001	000000000000000000000000000000000000000	1000000001	1 0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000001000	100000000	000000000000000000000000000000000000000	2 1 0 0 1 0 0 0 0 0	2 1 0 0 0 0 0 8 0 0 3 1	000000000000000000000000000000000000000	1200001	010000000	0 2 0 1 0 9 0 0 6 1	0200103067	0105302069	2 1 0 9 3 0 4 0 12 9 2	1 0 4 2 0 3 0 2 2	0 1 0 2 1 1 3 0 1 + 1	0 0 1 0 1 1 1 1 0 0 0 0	0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 0 1 1 0 3 0 2 2

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR CIOXIDE UNITS - D OF PARTS/MILLION STATION - SW NO 14062 242 INDIAN ROAD SOUTH, SARNIA MONTH . OCT 80 HOUR 7 8 9 10 11 12 5 13 14 15 16 17 18 19 20 21 22 23 1 2 3 4 5 6 7 8 9 000000000 0 0 6 0 2 0 020000-00 00000000000 20000-0400 0 1 0 0 1 1 0 2 0 0202 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 2 1 14 1 0 0 0 1 2 0 1 15 1 0 0 1 9 0 0 12 300 000 0000-00000 0000-00000 0000-00000 0000-00000 0000100000 0000101 0000101 00001020 0100-02002 0000011000 000201 000001100 0000011 31 3 10 4 1 0 1 Ų MEAN

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID . 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGXIDE MONTH - NOV 80 242 INDIAN ROAD SOUTH, SARNIA STATION - SW NO 14062 24 MEAN HOUR 0000-0000 10 2 1 0 0 1 0 0 2 0 0 9 0 .00000 033000.018 0-00000001 12 13 14 15 16 17 18 19 20 22 23 24 25 26 27 28 29 30 280-002082 320-002082 0 0 0 4 0 2 2000-0-1.1 MEAN

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - O O1 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - DEC 242 INDIAN ROAD SOUTH. SARNIA STATION - SW NO 14062 13 14 15 HOUR 0 1 0000-02 20-00020-0 M0000000 2 3 4 5 6 7 8 9 10 0000000-0 0000000-0 -00000000 0000000-0 01002-2000 0000000-00 00000-0-00 12 13 14 15 16 17 18 19 20 003-6000 0 - 200 20600 22 23 24 25 26 27 28 29 30 00-0000000 000000-000 0.8 

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

#### UNITS - 0.01 PARTS/MILLION

STATION	. 5	NO	14062	242	INDIAN	ROAD	SOUTH.	SARNIA
	-				ATTOLANT	HOME	200111	SHULLIN

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	16	1.1	4	12
FEB	29	1.2	5	14
MAR	26	1.2	5	15
APR	28	1.2	4	13
MAY	31	1.5	3	10
JUN	28	2.0	7	30
JUL	31	2,2	0	31
AUG	31	1.4	4	14
SEP	30	0.7	3	22
OCT	31	0.8	3	15
NOV	30	1.1	4	12
DEC	31	0.8	4	14
YEAR	342	1.3	7	31

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA VALID MIN 10

93.1

TANT - SUI	LPHUR DIO	XIDE				UNITS - 0.01	PARTS/MIL	LION	
ION - SW	NO 14062	242	INDIAN ROA	D SOUTH,	SARNIA				
MONTH OO	TO 05 0	6 TO 10	11 TO 15	16 TO 20	21 TO 25	26 10 39 40	TO 49 50	&CVER	TOTAL
MAL	388	17	1	0	0	٥	0	0	406
FEB	657	18	2	0	0	0	0	0	677
MAR	625	17	6	0	0	0	0	0	648
APR	681	9	2	o	0	o	0	0	692
MAY	722	12	0	0	0	0	0	0	734
JUN	621	42	8	2	1	2	0	0	676
JUL	675	38	5	5	1	1	0	0	725
AUG	708	22	2	0	0	0	0	0	732
SEP	685	14	3	1	1	0	0	0	704
OCT	721	10	5	0	0	0	0	0	736
NOV	674	35	2	0	0	o	0	0	711
DEC	721	13	2	0	0	o	0	0	736
YEAR	7878	247	38	8	3	3	0	0	8177
	ION - SW  MONTH OO  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP  OCT  NOV  DEC	ION - SW NO 14062  MONTH OO TO 05 O  JAN 388  FEB 657  MAR 625  APR 681  MAY 722  JUN 621  JUL 675  AUG 708  SEP 685  OCT 721  NOV 674  DEC 721	MONTH OO TO OS OS TO 10 JAN 388 177 FEB 657 178 MAR 625 177 APR 681 9 MAY 722 121 JUL 675 38 AUG 708 22 SEP 685 14 OCT 721 10 NOV 674 35	ION - SW NO 14062 242 INDIAN ROAMONTH OO TO 05 06 TO 10 11 TO 15  JAN 388 17 18 2  MAR 625 17 6  APR 681 9 2  JUN 621 42 8  JUL 675 38 5  AUG 708 22 2  SEP 685 14 3  OCT 721 10 5  NOV 674 35 2	ION - SW NO 14062 242 INDIAN ROAD SOUTH,  MONTH OO TO 05 06 TO 10 11 TO 15 16 TO 20  JAN 388 17 18 2 0  MAR 625 17 6 0  APR 681 9 2 0  JUN 621 42 8 2  JUL 675 38 5 5  AUG 708 22 2 2 0  SEP 685 14 3 1  OCT 721 10 5 0  DEC 721 13 2 0	ION - SW         NO 14062         242         INDIAN ROAD SOUTH, SARNIA           MONTH 00 TO 05         06 TO 10         11 TO 15         16 TO 20         21 TO 25           JAN         388         17         1         0         0           FEB         657         18         2         0         0           MAR         625         17         6         0         0           APR         681         9         2         0         0           JUN         621         42         8         2         1           JUL         675         38         5         5         1           AUG         708         22         2         0         0           SEP         685         14         3         1         1           OCT         721         10         5         0         0           NOV         674         35         2         0         0	ION - SW NO 14062 242 INDIAN ROAD SOUTH, SARNIA  MONTH OO TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40  JAN 388 17 1 0 0 0 0  FEB 657 18 2 0 0 0 0  MAR 625 17 6 0 0 0 0  APR 681 9 2 0 0 0 0 0  MAY 722 12 0 0 0 0 0  JUN 621 42 8 2 1 2  JUL 675 38 5 5 1 1  AUG 708 22 2 0 0 0 0  SEP 685 14 3 1 1 0  OCT 721 10 5 0 0 0  DEC 721 13 2 0 0 0	ION - SW NO 14062 242 INDIAN ROAD SOUTH, SARNIA  MONTH OD TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50  JAN 388 17 1 0 0 0 0 0 0  FEB 657 18 2 0 0 0 0 0 0  MAR 625 17 6 0 0 0 0 0 0  APR 681 9 2 0 0 0 0 0 0  MAY 722 12 0 0 0 0 0 0  JUN 621 42 8 2 1 2 0  JUL 675 38 5 5 1 1 1 0  AUG 708 22 2 2 0 0 0 0 0 0  SEP 685 14 3 1 1 0 0 0  NOV 674 35 2 0 0 0 0 0 0  DEC 721 13 2 0 0 0 0 0 0	ION - SW NO 14062 242 INDIAN ROAD SOUTH, SARNIA  MONTH OD TO 05 08 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 EOVER  JAN 388 17 1 0 0 0 0 0 0 0 0 0  FEB 657 18 2 0 0 0 0 0 0 0 0  APR 681 9 2 0 0 0 0 0 0 0 0  APR 681 9 2 0 0 0 0 0 0 0 0  JUN 621 42 8 2 1 2 0 0 0  JUL 675 38 5 5 1 1 1 0 0  SEP 685 14 3 1 1 1 0 0 0 0  NOV 674 35 2 0 0 0 0 0 0 0 0 0  DEC 721 13 2 0 0 0 0 0 0 0 0 0

30

0.2

0.0 0.0

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - JAN CENTENNIAL PK FRONT ST/CN TRACKS, SARNIA STATION - SW NO 14064 24 MEAN HOUR 000000-000 000000-000 1 2 3 4 5 6 7 8 9 10 002000-00 00-003 0-200 10.00100 12 13 14 15 16 17 18 19 20 -0000-0 7 0 ò 22 23 24 25 26 27 28 29 30 1 1 1 1 1 1 1 1 MEAN 

PERCENTAGE OF DATA VALID - 95.7

PERCENTAGE OF DATA INVALID . 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE CENTENNIAL PK FRONT ST/CN TRACKS. SARNIA MONTH - FEB 80 24 MEAN HOUR ò 3 0 0 1 3 13 0 12 13 14 15 16 17 18 19 20 11 0 0 0 0 10 3 1 13 0 1 0 0 12 3 1 0 0 12 1 -0-0000 0--0000-0 22 23 24 25 26 27 28 29 0 1 0 1 1.1

PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	· SW	NO	14064		CENTE	NNIAL	PK F	RONT	ST/CN	TRAC	KS. S	ARNIA		NGM	тн -	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	: 7	18	19	20	21	22	23	24 N	REAN
1 2 3 4	1 1 4 10	1 1 3	1 1 3	1 1 3 3	1 1 3 2	1 1 2	1 1 2 2 1	1 2 2 2	1 3 2 2	1 3 3	1 1 5 3	1 8 4	10 5	1 1 11 8	1 1 10 6	1 0 11 4	1 1 4	1 1 9 5	1 1 13 3	1222	1 1 10 3	1 2 5 4	1 1 3 7	1 1 4 7	1 1 6 4
6 7 8 9	1 1 1 7	1 1 1 3	1 1 2	1 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 6	1 1 1 9	1 1 1 1 2	1 1 2 12	2 2 2 9	2 2 2 2 6	3 2 1 3 9	3 1 1 2 14	1 2 1 2 10	5 2 1 1 9	6 4 1 5	7 3 1	2 3 1 5	3 2 1 9	1 2 1 10 0	1 6 0	3 1 1 5 0	- 1 6 0	7	3 2 1 3 5
11 12 13 14 15 16 17 18 19	1 0 2 2 0 0 7 1 1	0 0 1 2 0 0 1 0 1 1 1 1 1 1 0 1 0 1 1	1 0 1 2 0 0 7 1 2 9	1 0 2 1 0 0 8 1 2	1 0 1 1 0 0 8 1 5	1 0 1 1 0 1 8 1 9	0 0 1 1 0 1 5 1 12 16	0 0 1 1 0 1 3 1 11 32	0 0 1 1 0 1 2 1 9	0 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 1 1 1 1 1 1 4	000022197	0 0 1 1 0 2 9 1 11	0 1 0 0 1 2 1 15 11	0 0 1 0 0 1 1 7 2	0 0 1 0 0 1 1 1 2 6	0 0 1 0 0 1 1 1 2 7	0 0 1 0 0 1 1 1 3 2	0 0 1 0 0 1 1 6 1	0010011141	0010051190	0 0 1 0 0 2 1 1 5 0	0:20021180	0 1 1 3 1 7 12
21 22 23 24 25 26 27 28 29 30	1000010100	0000110201	0 0 0 1 1 0 1	0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0	0000000000	0000000	0001000000	0 0 0 1 0 0 0	0 0 0 0 0 0 0	0 0 0 0 1 1 0 0	00000000000	0 0 1 0 0 0	0 0 3 0 0 0 1 0 0 0	0 0 2 0 0 0 1 0 0 0	0 0 1 0 0 0 0	0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000	0000000000	000000000000000000000000000000000000000	0000000000	000000+000	0000	000000000
31 MEAN	0 2	0 2	0	o · 2	0 2	0 2	0 2	0 2	3	2	0 2	0 2	2	3	0 2	2	0	0 2	0 2	o ·	1	0	0	0	1.8

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 5	ULPH	HUR DIO	XID	E							UNITS	- 0.	01 PA	RTS/MI	LLIO	N						
	STA	TION -	SW	NO	14064		CENTEN	NIAL	PK FR	ONT	ST/CN	TRACE	( <b>s</b> , s	ARNIA	•	MON	гн - д	PR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	MEAN
1 2 3 4 5 6 7 8 9	0 1 1 2 0 0 1 2 1	0 1 1 0 3 0 0 1 2 1	0 1 1 1 1 1 1 0 1 1 1 6	0 0 0 0 0 0 2 1 5	1 0 1 1 2 1 3	001110112114	0 1 4 1	0 0 1 2 1 1 1 2 6 2	1021112162	1 1 1 1 3 8 1 5	1 1 7 14 1 3 1	1 0 1 0 6 8 1 1 1	1 1 0 0 4 17 2 1 1	1 1 0 0 0 0 2 1 2 2 1	1 0 1 1 4 1 1 4 3	1 0 1 0 2 1 1 1 3	1 0 0 1 3 1 1 2 1	1 0 0 1 1 1 1 4 1	1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 1	1020002260	1 0 1 0 0 0 1 2 9 0	1 1 0 0 1 1 5 0	1 1 2 0 0 1 - 2 0	1 1 1 1 2 3 1 4
11 12 13 14 15 16 17 18 19	0 1 0 0 1 1 0	0 0 0 1 0 0 2 2 0	1 0 0 0 2 0 0 2 2 0	0 0 0 0 0 1 1	0 1 0 0 2 0 0 1 2 1	0100300141	0 0	0 2 0 0 1 0 3 2 6 0	0 8 0 1 0 7 1 5	0 3 0 0 1 0 2 1 4 0	1 4 0 0 0 2 0 3 3 - 2 0	1 20 00 0 1 20	000000000000000000000000000000000000000	0000000	1 0 0 0 1 0 1 1 0 0	100000100	1 000000000	100000000000000000000000000000000000000	200000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2001000030	1 00 00 00 10 00 00 10 00 00 00 00 00 00	0001	1001001100	0 0 1 1 2 0
21 22 23 24 25 26 27 28 29	030000000	0 3 0 0 0 0 0 0 0 0 0 0	0 3 0 0 0 0 0 0 0 0 0 0	030000000	030000000000000000000000000000000000000	030000100	4	500010101	2600010101	17000001	0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	040.000-00	0 0 0 0 1 0	7 0 0 0 0 0 1 0 1	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0100000000	0-00000000	0 1 0 0 0 0 0 0	1 1 0 0 0 2 0 0 0 0 0 0 0	3 - 00 00 00 00	100000000	3 . 0 0 0 0 0 1 0	300000000	1 3 0 0 0 0
MEAN	1	1	1	1	1	1	1	1	2	1	2	1		,	,	0	1	i	â						0.0

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	PUL	LUIANI	- 3	ULFF	104 010	~100																			
	STA	TION -	5W	NO	14064		CENTEN	NIAL	PK F	RONT	ST/CN	TRAC	KS. S.	ARNIA			ГН -		80					-	
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
	_	0	٥	0	0	0	0	0	0	0	1	*	1	0		1.4	0		0	0	0	1	1	1	0
1	0	1		1	ĭ	·	ĭ	1	1	3	4	1		0	0	0	O	0	0	0	0	0	0	0	1
2		ò	1	ò	ò		ò	•	ò	- 7	1	ó	0	0	0	0	0	0	0	0	1			0	0
3	0	ő	0	ő	ŏ	ò	ŏ	i	ŏ	ò	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0
4	0	ő	0	ŏ	ŏ	ŏ	ŏ	ò	ŏ	1	2	2	2	1	1	2	2	2	0	2	1	1	1	1	
5	0		0	Ÿ	ĭ	٠	2	2	ĭ	- 1	2	5	3	2	1	2	1	3	3	2	2	4	2	2	2
6	1	2		- 1	,	- 1	1	- 1	- 1	- 1	7	- 7	ĩ	- 7	1	1	4	1	1	1	1	1	2	1	1
7	2		,			- 4	- 1		2	2	2	i	1	1	1	1	1	1	1	1	1	1	1	1	
8	- 1	1	1	- 1	1	- 1	2		7	- 7	1	- 1	ò	•	Ó	1	C	0	0	0	1	1	1	1	1
9	1	- 1					1	•	5	6	5	4	2	4	6	6	6	6	2	1	1	1	5	7	3
10	0	1	1	- 3	,		30			•		-	-												
**	-	1		0	1	2		2	1	1	1	0	0	0	0	0	O	0	٥	0	0	0	0	0	1
11	2		1	1		1	8	ī	ò	Į.	c	č	٥	0	9	0	000	0	1	1	C	0	0	c	n
12	1		1	1	ò	ò	1	•		- 1	ŏ	ō	ō	ô	ō	0	0	1	0	0	0			0	0
13	0	0	0	- 1	ž	ō	ò	ò	0	o	0	ī	ō	0	1	1	1	0	0	0	0	0	0	- 1	
14	0		0		0	ŏ	·	ŏ	ŏ	ŏ	ő	o	ō	ō	0	0	0	0	0	0	0	1	1	0	0
15	0	0	0	0		ŏ	,	Ÿ	·	٠,	ĭ	ŏ	ŏ	ō	ŏ	0	0	0	0	0	0	0	0		٥
16	0		0	Ö	1	ŏ		- 3	- 1	- 1		ĩ	ī	1	1	1	0	0	0	0	0	0	1	0	1
17	0	1	1	1			5		,	- 1	- 1	1	0	Ö	ž.,	0	0	0	0	0	0	1	0	0	- 1
18	1	1	1	ō	1	0	1	- 1	ő	- 1	ò	i	ĭ	ŏ	1	0	0	0	0	0	0	0	0	0	8
19	0	0	0	0	0	ŏ	ò	ò			ő	ò	Ó	1	1	0	1	1	1	1	1	1	1	2	0
20	0	0	٥	0	0	O	0	•	٠			•	-		1.5									-	
21	1	1		1	0	1	1	1	ž	1	1	1	1	1	1	0	1	1	1	0	2	4	3	2	- 1
22	2	ż	2	3	ž	i	4	1	i	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	- 1
22	2	2	ŝ	2		1	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	2		1	1
23 24	-	7	7	- 7		1	1	2	7	2	1	1	1	0	0	1	- 1	1	1	1:	1	- 1		2	1
25	- 1	i	4	i	i	1	1	- 7	1	1	1	1	1	1	1	1	1	1	7	1	1	1	1	0	- 1
25 26 27		i	ò		0	0	0	0	0		1		1	0	1	1	1	1	2	1	0	- 1	- 1	4	4
27	ė.		ŏ	ò		õ	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	237	1
28	4	4	2	1	i	ĭ	1	1	1	2	3	2	1		1	1	0	1	0	2	1	1	1	1	1
29	ã	- 7	1	2	1		1	1	1	1	2	4	2	1	1		1	2	2	2	2	3	2	2	5
30	2	ò	ò	3		3	7	11	10	8	5	6	6	9	10	15	11	4	0	2	9	1	1	3	3
30	-	-		-	-	-		18 19	-					20.0	100	-	-	-			_		٥	0	4.
31	6	1	6	2	1	2	2	2	1	0	0	0	0	0	0	٥	0	0	0	٥	0	0		U	,
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	. 1	1	1.0

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION																								
	ST	ATION -	SW	NO	14064		CENTE	NNIAL	PK	FRONT	ST/CN	TRAC	K\$. S	ARNIA	i	MON	TH ·	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	0	0	0	000	0 0	0	1
3	0	0	0	0	0	000	1	0	0		1	1	1 0	1	0	0	0	0	4	4	4	2	200	0 2 0	1
5 6 7	0	0	000	0	00	000	1	1	1 0	0	1	0	3 0	11	2	0	0	0 7 0	10	0 0 11 0	0	0	1 0	0	1
8 9 10	0 0	0	0	0	0	. 0	0	0	0		0	000	0	0	0	1 0	0 0 0	0		000	000		00	0	ŏ
11	0	0	0	0	0	0	1	••••	••••		••••		٥	0	0	0	0	0	0	0	0	0	0	C 2	1
12 13 14	2	0 3	0	0 5 3	6	2	1	3	3	:		1	5	9	8	8	10	13	·5	····	1	1	3 0 0	4 1 0	5 2 0
15 16	0		0	0	0	0	0	0	0	0			000	0	0	0	0	0	0 7	0 7	0	0	0	0	0
17 18 19	0	0 1 0	0	000	0	000	2 2 0	1	1 2	17	9	1	9	8	16	3	0	0	0	000	10	0	0	1	3
20 21	1	0	0	0	0	0	0	0	2		0	0	0	0	0	0	0	0	1	1	2	7	3	2	1
	4 2	2	1 2	1 2	1 2	1	2	4 2	3	3 4	3	2	3	4	2 4	5	5	7 4 3	6 3 2	3	1 0	1	1	;	3 2 2
22 23 24 25 26 27 28	2 2	2	1	1	1 1 2	0		4	3	1 2	3	7	22	15	6	5	4	3	3	••••	6	4	0	5	5
27 28	0	ò	0	0	0	0	0	0	. 6	0	0 0 7	0 1 7	0	0 5 0	0 2 0	1	1	0	1	1	1	0 0	0 0	0	1 2
29 30	9	0	0	0	0	٥	٥	0	ā	Ó	0	0	ō	0	0	٥	0	0	ō	0	0	0	0	0	1.2
MEAN	1	1	1	1	1	٥	1	1	1	2	,	2	2	2	2	1	1	2	2	1	1	3	- 1	•	1 . 4

PERCENTAGE OF DATA VALID - 93.8 PERCENTAGE OF DATA INVALID - 5.1

PERCENTAGE OF DATA UNAVAILABLE - 1.1

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	STA	TION	- SW	NO	14064	ji	CENTER	NIAL	PK F	RONT	ST/CN	TRAC	KS. S	ARNIA		LON	тн -	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0100010200	0000000000	0000010000	0 0 0 0 0 0 0	0 0 0 1 0 0 0 0	0000010000	1 0 1 0 0 1 2 0 0 0	2 0 1 1 0 1 3 0 0 1	5 0 1 1 0 1 7 0 0 3	3 0 1 0 0 1 5 0 0 3	10004	3 0 0 1 1 5 1 0	4 0 0 1 1 1 4 0 0 9	7 0 0 1 1 7 0 8	7 0 0 0 1 1 1 0 0 15	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 1 1 2	8 0 0 0 1 1 1 0 2 1	8 0 0 1 1 4 0	3 0 0 0 1 0 1 0 2 1	3 0 0 0 1 0 0 0 0	0 1 0 0 0 1	2010100001	1 0 1 0 0 0 0 0	3 0 0 0 1 1 3 0 1 3
11 12 13 14 15 16 17 18 19	0 0 0 1 2 0 0 0 5 1	0 0 0 1 14 0 0 0 1 1	0 0 1 17 0 1 0 1 1	0 0 0 0 1 2 0 1 1	0 0 0 0 1 0 0 0 3	0 0 0 1 6 0 0 1 7	0 0 0 2 3 0 0 0 2 1 1	0 0 0 4 3 0 0 1 2 2	0 0 0 0 0 0 1 1	1 0 0 1 1 1	0 0 3 2 0 0 4 1 0	1 1 0 6 2 0 0 6 2 0	1 4 0 8 1 0 0 4 2 1	1 7 0 19 0 3 0 13 2	1 6 U 28 O 23 O 7	0 1 0 15 0 11 1	0 1 0 3 1 4 0 5 1 5	000302033	0 0 0 1 1 7 0 2 2 15	0 0 0 2 0 6 0 2 1 9	0 0 0 1 1 0 2 0 1 1 1 2	0 0 0 14 0 0 0 2 1 1 3	0 0 1 0 1 1 2	000120000411	0 1 6 3 3 0 3 1 5
21 22 23 24 25 26 27 28 29 30	000050001	0000100000	0000-00000	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00001	000010	0 0 1 1 0 0 0 1 0	0 0 1 0 0 0 0	0 0 4 0 1 0 0 5	0000000	0 0 0 0 0 1 0	0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 1 0	0 0 0 1 0 0 1 0 0	0000000000	0001000-00	0005100-01	12 1 0 0 0 0	0 1 6 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 MEAN	0	0	1	0	0	0	1	0	0	0	0	1 2	0	1 3	2 3	2	6	2	1 2	1	1	1 2	1	1	1 1.3

PERCENTAGE OF DATA VALID - 97.7 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION	- SW	NO	14064		CENTE	NNIAL	PK F	RONT	ST/CN	TRAC	K <b>S</b> . S.	ARNIA		MON	тн -	∆UG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 0	1 0 1 0 0 0 0 0 0	0 0 1 1 0 0 0	1 0 0 1 0 0 0	1 0 0 0 1 0 0 0 0	10000	0 0 3 0 2 0 0 0	1 0 0 1 4 0 4 1 0 0	0 2 0 0 0 0 0 0	0 3 0 1 1 0 9 0 0 0	2 0 2 1 0 0 0 0 0	0711202100	1 10 0 1 2 1 0 0 0	1 2 0 1 7 0 0 4 0 0 0	0 1 1 1 4 1 0 0 0 0	0 8 1 1 2 1 0 1 0	0301530000	001163.000	1 0 0 1 0 0 0 0 0	1 0 0 1 0 0 0 0	0 0 0 1 0 1 1 0 0 0	0000011000	1 0 0 1 0 0 0	0 0 0 1 0 2 0 1 0 0	1 2 0 1 2 0 0 0
11 12 13 14 15 16 17 18 19 20	0 0 0 0 1 0 1 2 1	0000	0007010113	0 0 0 0 0 1 1 3	0 0 0 1 0 0 1 1	000000121	0 0 0 0 0 0 1 1 1	0000000811	0010000012	0 5 0 0 0 0 1 0	000000000000000000000000000000000000000	010000022	0 0 0 0	0 0 0 0 1 1 3 10	: 0 0 0 0 1 0 3 7	10001042	0 1 0 0 0 1 0 4 1	302000-01	0 0 0 0 0 1 0 1	0 0 3 0 0 2 0 1 1	0 2 0 0 1 0 1 1	010000011	0 0 0 0 1 0 0 1 1	0 0 0 0 1 0 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	3	0000	000000000000000000000000000000000000000	0 0 0 1 0 0 1 7	0 0 0 0 1 1 0 1 3	0 0 0 0 1 0 1 1	1 1 0 0 0 1 1 0 1 0	10000	1 1 0 0 2 1 1 0 1 2	1 0 0 1 1 0 1 3	0 5 2 0 1 0 2 3	0 4 2 0 - 0 2 2	1 0 0 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 2 2 1 1 1 2 2 2	20013111334	2 0 0 1 2 1 1 2 1 3	3001211125	000000000000000000000000000000000000000	00004233314	0 0 0 0 1 3 5 1 2 6	1 0 0 0 2 1 1 1 3	1 0 0 1 6 1 0 0 2 5	1001110124	0 0 0 0 1 1 0 1 2 3	1 0 0 1 1 2 1 1 1 2 3
31 MEAN	3	1	1	1	1	1	0	0	1	1	T.	1	2	4	5	8	6	,	1	1	5	9	7	2	3

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION -	SW	NO	14064		CENTER	MIAL	PK F	RONT	ST/CN	TRAC	KS. S	ARNIA		MONT	н : :	SEP	80						
HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	6	4	3	4	6	7	2	1	1	1	2	2	2	1	1	1	0	0	0	0	0	0	0	2
2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	ő	0
3	0	0	٥	0	0	0	0	0	1	1	0	3	5	9	16	9	2	3	3	1	0	0	1	1	2
4	0	0	0	0	0	0	0	- 1	1	5	2	2	2	3	10	4	4	3	4	-	6	2	1	- 1	1
5	1	1	1	0	1	1	0	1	2	0	1	0		0	0	0	٥	0	0	0	0	- 1	1	1	ò
6	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	o	0	٥	0	0	- 1	ò	ò	
7	0	0	1	1	1	1	1	1	0	1	0	0	0	0	٥	0	0	0	0	9	0	0	ĭ	3	0
8	0	0	0	0	0	0	0	1	2	3	8	6	8	10	5	4	3	3	2	2	2	ò	ò	ő	3
9	10	4	3	6	10	10	7	2	2	8	2	2	. !	0	0	o	0	0	0	0	0	ŏ	ŏ	ŏ	ő
10	0	0	0	0	0	0	0	٥	0	0	0	C	. 0	0	0	0	0	,		U	U	U	U	٠	
11	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0 8 0	0	o	0	0	0
12	0	0	0	0	0	0		0	0	0	1	3	4	1	0	0	٥	0	٥	0	0	1	0	- 1	=
13	1	1	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	3	9	8		4	1	ò	ž
14	1	0	0	0	0	0	0	0	0	0	0 5	0	0	0	0	٥	٥	0	0	0	0	0	0	ő	0 0 3
15	0	0	0	0	0	0	0	•	0		0	0	0	0	0	0	0	0	0	0	0	0	Ö	1	9
16	0	0	0	0	0	2	2	2	1	4	5	6	6	6	10	9	9	10	3	1	1	1	ò	0	3
17	1	2	1	1	1	1	0	0	0	0		0	0	٥	0	0	0	0	٥	0	0	0	Ö	2	2
18	0	0	0	0	0	0	1	1	0	0	0	3	4	1	7	9	8	5	1	- 1	1	- 1		1	í
19	2	2	1	1	1	1	1	1	1	1	1	1	1		.1	. 1	- !			- 1	- 1	1		2	
20	2	8	10	8	8	6	5	4	3	2	6		6	3	2	1		1	1	1	3	1		-	-
21	2	1	1	2	3	1	1	2	2	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2
22	1	0	1	1	1	1	2	2	2		1.	2	1	1	5	4	2	1	1	- 1	1	0	0	0	ò
23	3	0	0	1	1	0	0	1	0	- 1	0	0	0	0	1	0	0	0	0	0	0	1	ŏ	Ö	ĭ
24	0	0	0000	0	0	0	1	1	1	1	0	0	0	0	1	9	5	1	1	1	1	1	٠	1	- 1
25		0	0	0	1	1	1	1	1		1	1	1	2	4	5		2	1	1	1	1	ò	ò	
26	1	0	0	0	٥	0	1	0	0	0	0	0	0	0	0	0	3	0	o.	0	0	0	ĭ	ĭ	0
24 25 26 27	0	0		1			0	1	3	8	5	3	2	7	5	6	9	ò	7	ö	0	1	ò	ò	ő
28	0	1	0	0	0	0	0	0	0	0	0	0	0	0	. 0		5	9	0		٠	,	2	2	š
29	0	1	1	1	1	1	1	1	1	- 1	1	- 1	9	13	11	5	6	9		1	- 1		- 1	- 1	3
30	2	1	2	3	8	5	3	6	2	4	3	4	5	5	7			-		,	,				-
MEAH	1	1	1	1	1	1	1	. 1	1	2	1	1	2	2	3	2	2	2	1	1	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.0: PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - OCT 80 CENTENNIAL PK FRONT ST/CN TRACKS. SARNIA STATION - SW NO 14064 8 9 10 11 13 14 15 16 17 18 19 HOUR 0 0 0 0 0 0 0 0 0 11 0 0 0 7 0 1 0 10 1 2 3 4 5 6 7 8 9 10 8-20000-00 1 0 5 12 13 14 15 16 17 18 19 20 0 0 0 1 1 1 1 1 0 1 1 00011440-0 11000-2100 5 6 1 1 0 22 23 24 25 26 27 28 29 30 000000-004 000000-000 0000-00 0-006000--n n a 1.1 MEAN

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE CENTENNIAL PK FRONT ST/CN TRACKS. SARNIA MONTH - NOV 80 STATION - SW NO 14064 24 MEAN HOUR 3 0 0 3 3 4 5 6 7 8 9 10 ò o 12 13 14 15 16 17 18 19 0 1 4 1 0 1 14 2 0 3 1 0 1 2 12 1 1 2 1 1 0 2 0 2 22 23 24 25 26 27 28 29 30 11 16 4 1 17 7 21 2 10 1 20 2 1 1 2 1 

3 2 2

PERCENTAGE OF DATA VALID - 99.4

MEAN

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.4

3 3 3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

2 2 2

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE CENTENNIAL PK FRONT ST/CN TRACKS. SARNIA MONTH - DEC 24 MEAN HOUR 1 2 3 4 5 6 7 8 9 10 0 0 1 12 13 14 15 16 17 18 19 20 6 2 22 23 24 25 26 27 28 29 30 10 2 2 2 10 1 2 2 15 1.9 MEAN

PERCENTAGE OF DATA VALID - 96.6

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE . 1.6

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1960

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OI PARTS/MILLION

STATION - SW	NO 14064 CENTENNIAL	PK FRONT ST/CN TRACKS.	SARNIA	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	29	1.0	3	11
FEB	29	1,1	6	13
MAR	31	1.6	12	35
APR	30	0.9	4	17
MAY	31	1.0	5	15
JUN	30	1.2	5	22
JUL	31	1.3	6	28
AUG	31	1.0	3	13
SEP	30	1,3	4.	18
oct	31	3,1	8	23
NOV	30	2.4	9	22
DEC	31	1.9	8	19
YEAR	364	1.3	12	35

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

			•••••						
POLLUTANT - SE	ULPHUR D	IOXIDE				UNITS - 0	.01 PARTS/	MILLION	
STATION - SW	NO 140	64 CEN	TENNIAL PH	FRONT ST	CN TRACKS.	SARNIA			
MONTH O	0 TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 10 39	40 TO 49	50 SOVER	TOTAL
JAN	691	19	2	0	0	0	0	0	712
FEB	655	14	15	0	0	0	0	0	684
MAR	663	48	19	2	0	4	0	0	736
APR	684	20	Ĭ	1	0	0	0	0	706
MAY	709	18	3	o	0	0	0	0	730
JUN	640	27	5	2	1	0	0	. 0	675
JUL	677	27	17	3	2	1	0	0	727
AUG	704	19	3	0	0	0	0	0	726

SEP	665	47	2	1	0	(	9	0	0	715	
OCT	706	21	6	3	2		•	٥	0	738	
NOV	635	33	27	18	3		0	0	o	716	
DEC	672	34	10	3	0		)	0	0	719	
YEAR	8101	327	110	33	8		5	0	0	8584	
FREQUENCY	DISTRIBUTE PERCENT OF DATA VALID	ON BY PER	CENTILES	FREQU 30 50	JENCY DISTR	TRATIONS IBUTION. 90	PERCENT 95	98	99	MAX	AR I TH MEAN

0.2

0.0

0.0

0.8

2.7

5.5

9.7

12.4

1.3

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

	STA	TION	SW	NO	14902		286 P	AGET	ST. C	DRUNNA	Ý.				-	MON	In ·	CAN	80		,				
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	13	19	20	21	22	23	24 1	MEAN
1 2 3	16 1 9	0 4	B 0 6	4 0 7	3 1 9	1 10	3 1 8	5 1 2	10 0 2	16 0 2	10	10 0 3	15 1 9	3 2 8	1 3 2	1 2 1	1	1 5	4	1 4 0	1 2	0	0 3 0	5	5 2 4
4 5 6	9 0 1	0	0	0	1 0	1 0	1	1	2	0	1 0	۵ 0	0	1 1 3	1 2	0 1	0	0.2	2	1	1	0	0	2	;
7 8 9	0 2 1	3	5	0	0	0	000	000	00000	0 .		0	1	0	0	0	Ù	3 3 6 1	0 0	0	0	0	1	3 0 1	1 0 1
10	1	1	1	2	2	2	1	2	2	2	2	2	2	3	4	5	5	4	4	4	4	4	3	2	3
11 12 13 14 15 16 17 18	3 0 0 1 1 0 3 1 0 0	0 1 1 0 3 1 0 0	2 0 1 1 1 1 2 1 0 0	1 0 0 2 0 1 2 1 0 0	0 0 0 1 1 0 0 0	0 0 0 1 1 1 0 0	000101100	11 0 2 1 1 1 1 0	6 0 3 1 2 1 1 1 0	5031213101	2031112104	0 0 3 4 0 1 1 0 3	0 0 4 4 1 1 1 0 3	0 0 4 5 1 1 1 0 0	0045****00	0032111100	000000000	2 2 1 2 0 0	0 0 2 2 1 1 1 0 0	0 0 2 1 1 1 0 0 0	002102000	31000	0131031000	00 4 1 0 4 1 0 1 0	2 2 1 1 1 1 0 0
21 22 23 24 25 26 27 28 29	0 0 1 0 0 0 1	0 0 0 0 1 1	0 0 0 0 1 0 0 1 1	0 1 0 0 0 1 1	0 0 0 1 0 0 0 4	0 1 0 0 0 1 0 0 1 4	0 1 0 0 0 1 0 0 1 8	0 0 0 0 1 0 0 1 8	0 1 0 1 1 0 1 1	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2 1 1 1 1 4	0 1 0 1 4 1 1 1 1 2	0 1 4 0 0 1 1 3	0 8 4 0 0 1 1 2	0107410104	0 8 5 1 0 1	00000000	0000000000000	0 0 0 1 1 0 1 1 0 1	0 0 0 1 1 0 0 0	1 0 0 1 1 0 0	1 0 0 1 1 0 0 1 1 0	0 0 0 1 0 1 1 0	0 0 0 1 0 1 1 0	0 1 0 2 1 1 0 1 1 2
31	0	0	1	1	1	1	2	4	3	2	2	2	• • • •	• • • •	4	5	5	5	5	2	4	4	4	•	3
MEAN	1	1	1	1	1	1	1	1	1	2	2	1	2	2	2	1	1	Ĭ	1	1	ī	1	- 1	1	1.2

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	p	OLLUTAN	т.,	SULPH	HUR DIG	EXIDE							UNITS -	٥.	01 PA	RTS/N	ILLIO	N						
	s	TATION	- sw	NO	14902	28	6 PAGE	ST.	CORUNN	4					NON1	гн -	FEB	80						
HOUR	1	2	3	4	5	6	7 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	1 1 0 1 1 1 0 0	į	4 1 1 0 1 1 0 0	5 1 1 1 1 1 1 0	6 2 1 2 1 1 1	5 1 1 1 1 1 1 1 1 1	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4 1 1 1 2 2 2 1 1	1 3 1	1 1 2 2 1 2	1 2	3 1 3 1 2 1 4	2 3 1 3 1 2 6 2	4 2 1 2 1 2 1 2 1	3 2 3 2 2 2 2 2	2 2 1 3 4 2 3 1 0	1 2 1 2 1 2 1	1 1 1 1 1 1 0	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	2 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1	1 1 1 1 0	3 2 1 2 1 1 1 1
10 11 12 13 14 15 16 17 18 19	1 2 0 1 3 0 2 1 2 3	0 1 3 0 2 1	1 2 0 1 2 0 2 1 1 4	0 1 2 0 5 1 1 4	1 2 0 1 2 0 4 1 1	1 2 0 1 2 0 3 1 2 3	2 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0	0 1 1 3	0 1 1 4 4	0 1 1 2 4 1 1 1 1 3 4 4	0 2 1 3 2 1 2 1 3 4 0 0 1 0	0 1 0 3 2 1 3 1 3 4 1 1 3	1 1 3 2 1 3 3 3 4 .	3 1 2 1 4 3	1 0 5 4 1 1 1 4 3	1 0 0 6 1 1 1 4 3	2 0 0 5 1 1 1 1 3 2	1 0 0 4 1 1 1 1 3 2	1 0 0 4 1 1 1 2 3 2	1 0 0 3 1 1 2 2 4 2	0 0 2 1 1 2 4 2	1 0 0 2 1 2 1 2 4	1 0 2 2 1 2 1 3 3
21 22 23 24 25 26 27 28 29	10 1 3 7	7 1 1 3	**. 8 1 0 2	1 3 2	1 1 2 5	1 1 0 2	1 1 1 0 0 0 0 3	2		0 0 6		DATA	INVALID INVALID INVALID INVALID 0 4	0 4	 0 0 0	0 1 2 5	0 0 1 7	3 0 1 3 7	2 0 1 2 5	4 1 0 1 1	1 1 1 1	3	3 1 0 1	2 1 1 4
MEAN	2	2	2	2	2	1	2 1	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1.6

PERCENTAGE OF DATA VALID - 79.3 PERCENTAGE OF DATA INVALID - 20.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - G.O1 PARTS/WILLION POLLUTANT - SULPHUR DIOXIDE 286 PAGET ST. CORUNNA MONTH - MAR 80 STATION - SW NO 14902 24 MEAN 1.5 HOUR 2 3 4 5 6 7 8 9 12 13 14 15 16 17 18 19 20 7 2 0 4 3 14 12 0 2 9 22 23 24 25 26 27 17 17 3 6 12 2 3 6 • 2.1 MEAN 

PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.2

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

PERCENTAGE OF DATA UNAVAILABLE - 0.0

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE 286 PAGET ST. CORUNNA NONTH - APR BO STATION - SW NO 14902 24 MEAN HOUR 13 1 0 0 0 0 2 4 0.0 12 13 14 15 16 17 18 19 20 2 4 3 10 3 9 2 3 5 10 3 13 12 2 14 22 23 4 . . . 5 25 26 27 28 9 14 3 2 7 12 3 3 3 7 10 2 3 4 12 3 2 2 2.8 Δ MEAN

PERCENTAGE OF DATA VALID - 95.1 PERCENTAGE OF DATA INVALID - 4.9 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAY 80 286 PAGET ST. CORUNNA STATION - SW NO 14902 12 13 14 15 16 17 18 19 20 22 23 24 MEAN HOUR 8 9 10 11 . ..... DATA UNAVAILABLE -1 2 3 4 5 6 7 8 9 - DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 - DATA UNAVAILABLE - DATA UNAVAILABLE DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
CATA UNAVAILABLE
DATA UNAVAILABLE - DATA UNAVAILABLE -31 5.1 MEAN

PERCENTAGE OF DATA VALID . 1.1

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 98.8

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

"-" INDICATES DATA IS UNAVAILABLE

3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW	NO 14902 286 PAGET	ST. CORUNNA		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.2	5	16
FEB	23	1.6	4	10
MAR	31	2,1	5	17
APR	28	2.8	7	25
MAY	0	5,1		9
YEAD	113	2.0	7	25

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

MONTHLY GROU	P FREQUENCY	DISTRIE	SUTION FOR	1980				
POLLUTANT - SI	ULPHUR DIOX	301		*		UNITS - 0.01	FARTS MILL	ION
STATION - SW	NO 14902	286	PAGET ST.	CORUNNA				
MONTH O	O TO 05 06	TO 10	11 TO 15	16 TO 20	21 10 25	26 TO 39 40	10 49 50	SOVER TOTAL
MAL	715	18	3	2	0	0,	c	C 736
FEB	539	13	0	٥	٥	0	G	G 552
MAR	672	48	14	1	0	0	0	0 735
APR	588	76	16	4	1	0	0	0 685
MAY	7	1	0	0	0	0	0	0 8
			33	7	•	. 0	0	0 2718
YEAR	2521	156	33	,		•	~	

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES		FREQUENCY		TRATIONS IBUTION.					ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	74.5	0	0.0	0.2	0.7	1.7	4,1	6.3	9.1	11.7	25	2.0

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESULTCES SHANCH

	POL	LUTAN	î - s	ULPHL	R D10	IDE							UNITS	- 0.0	11 PAR	TS, MI	LLION	ı						
	SUPERIOR		. sw	-12-22 10-3			STERN	FAIR	GROUNDS	KING	/REST	ORY.L	ONDON		MONT	н - ј	AN	80						
HOUR	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9												DATA DATA DATA DATA DATA DATA DATA DATA	INVALI INVALI INVALI INVALI INVALI INVALI INVALI INVALI	0 -										
11 12 13 14 15 16 17 18 19												DATA DATA DATA DATA DATA DATA DATA DATA	INVALI INVALI INVALI INVALI INVALI INVALI											
21 22 23 24 25 26 27 28 29 30		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	2 1 2 1 1 1 1	1 2 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1 1	2 1 2 1 1 1 1	2 1 3 1 1 0 1 0 0 1 0	2 3 1 1 2 1 1 1 1 1 1 1 0 0 0 0	3 1 3 1 1 2 1 1	2 2 2 0 1	2 1 1 2 0 1 0 1 1	2 1 0 0 0 1 0 0 1 0	2 1 1 0 1 1 0 0 1 1 0 0	1 1 0 1 1 0	3 1 1 1 0 1 1 1 1 1	0 1 2 1 1	1 1 1 1 0 1 2 1 1	1 1 1 0 1 2 1 -	2 1 1 1 0 1 1 2	2 1 1 1 0 1 1 1 2	2 1 1 1 1 0 1 1 1 2	3 1 1 0 1 2 1 2	2 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31 MEAN	1	4	1	4 2	1	3	1	1	1 0 t 1	0	0	,	0	1	1	1	1	1	1	1	1	1	1	1.1

PERCENTAGE OF DATA VALID - 33.3 PERCENTAGE OF DATA INVALID - 65.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAIL / MEAN IN GRE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . D.O1 PARTS/MILLION

	STA	TION -	SW	NO	15001		WESTERN	FAIR	GR	OUNDS	KING	/RECT	DRY.LO	NOON		MON	гн - ,	EB	80					61	
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	60001000121130010121	300010000211	100011000112111	1 0 0 0 2 0 0 1 1 1 2 2 1 1 3 3 0 0 1 1 1 1 1 0 0	1000100300212211300100121	20001031222 2113010111	2000	10001120312 2113010112 0	ō	1 0 0 1 1 2 2 1 1 2 0 1 1 2 0	1 1 0 1 2 1 0 2 1 1 1 1 1 1 1 2 1	1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1	1 1 0 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0102320221 ::12111111111111111111111111111111	0101210211 :1201111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 1 1 1 1 1 1 1 1 1	100011111111111111111111111111111111111	1 1 1 0 0 1 1 2 1 0 0 1 1 1 2 1 0 0 1 1 1 1	0101211012	00001211102 :13010111	0000111110002	0001012101 1100 02111 0	0 0 0 1 0 1 2 1 1 1 1 2 0 1 1 1 1 1 1 1	100011111221111111111111111111111111111
22 23 24 25 26 27 28 29	0 0 0 1 0 1 1 1	0 1 0 1 0 1	0 1 1 0 1 1 1	0 1 1 0 1 1 2	0 1 1 1 1 1 1 2	0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 2 1 0			1 1 1 0 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 1 1	1 0 0 1	0000	0 1 0 0 1	1 1 0 2 0 0 1	1 0 0 0 1 1	0 1 0 1 0 1 1	0 0 1 1 0 1 0	0 0 1 1 0 1 0	1 1 0 0 1 0	0 1 0 1 0 1 0	0 0 1 1 0	0
MEAN	1	1	1	1	1	1	1	1	1	1	ĭ	1	1	1	1	1	1	1	1	,	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 98.3 PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES GRANCH

	POLL	UTANT	. \$	ULPH	OIG SU	3Q1X								UNIT	s - o.	01 Pa	RTS/M	1110	N						
	STAT	ION -	SW	NO	15001		ESTERN	FAIR	GR	OUNDS	KING	AREC 1	ORY.	LONDON	N.	MON	ith - i	RAY	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 1 1 1 1	0 1 2 1 1 1 2 1 1 1 1	0 0 1 2 1 1 1 2 1 1	1 1 2 1 1 2 1 1	1 1 0 2 1 1 1 2 1	0 2 1 1 1 1 1 1 1 1	0 1 1 2 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 1 1 1	2 2 1 1 1 2	2	1 0 1 ••••• 1 2 1 1 2	1 1 1 1 2 2 2 2	0 1 1 2 2 2 2	1 0 1 2 0 1 1 1 2 2	2 2 0 1 1 2 2	200111222	2001131	1 0 1 2 1 1 1 1 2 2 2	1 0 1 1 1 1 1 1 2 1	0 0 2 1 1 1 1 1 2 1	0 0 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1	1 0 1 1 1 1 1 2 1
11 12 13 14 15 16 17 18 19	1000010002	1 1 0 0 0 1 0 0 0 2	1 0 1 0 0 1 0 1 1	1 0 1 0 0 1 1	1 0 0 1 1 1 1 1 1	1 0 0 1 1 0 0 1	1 0 0 1 0 1 1 1 1	1 0 1 0 1 0 1 0 1	0010011000	1 0 1 0 0 1 1 1	1 0 1 0 0 1 1 1 1 1	1 0 0 0 1 1 1 1 2	0 0 2	0 0 2	1 1 0 0 2 2	0 0 0 0 0 0 0 0 1 1 1 1	0000010121	0 0 0 0 1 0 1 2 1	000000	0 1 0 0 0 0 0 1 1	0 0 0 0 0 0 1 1	0 0 0 0 1 0 1 2 1	0 1 0 0 0 1 0 0 2 1	0.00010021	1 0 0 1 1 1 1 1
21 22 23 24 25 26 27 28 29 30	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10020000	1002000100	1 0 0 1 0 0 0 0	1 0 0 0 1 0 0 0 0 0 0	1 0 0 0 0 0	1000000000	0000100000	0000-00000	000000	000-000-00	0 0 1 0 0 0	0 1 0 0 0 0 0 0	000000000000000000000000000000000000000	0 1 0 0 0 1 0 0	0 1 1 0 0 0 1 0 0 0	001000000	001000000000000000000000000000000000000	0 0 0 1 0 0	0001000100	0022000100	0 0 1 0 0 0	0 0 0 1 0 0	0000000-00	0 0 0 1 0 0
31	0	0	0	0	0	0	0	0	0	0	0	••••	0	0	0	0	0	c	0	1	0	0	0	1	0
MEAN		1.	1	1	1	1	1	*	0	,	1		1	1	1	1		1	1	1	1	~1	0	1	0.6

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 3.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	-01	2 3 4 5		0.0											100			250							
	STA	TION -	SW	NO	15001		WESTERN	FAIR	GROU	UNDS	KINC	C/RECT	ORY . L	ONDON		NON	TH	LPR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	0	1	1	1		1	1	1	1	0	1	10	3	1	2	2	2	2	1	1	0	0	0	0	1
2	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1		1	,	1	0	0	0	,
3	0	0	1	1	1	2	1	2	2	2	1	1		1	1		1	•	1	3	1	1		0	1
4	0	0000	0	0	0	0	1	0	0	1	0	0	٥	0	0	٥	٥	0	0	0	0	1	1	0	0
5	0	0	0	0	1	0	0	0	0 0 2	0	0	٥	0		0	0	O	0	1	0	0	0	1	0	0
6	0	0	0		0	0	0	0	0	0	0	0	1	1	1	- 1	0	1	0	0	0	0	0	0	0
7	0		1	0	0	0		0		2	2	1	0	0	1	1	0	0	C	٥	0	0	0	0	0
8	0	0	0	0	0	0	٥	1	3	1 .		,	1	1	1	1	1	1	0	1	1	0	1		1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	C	0	0	0	0	0	. 0	1
10	0	0	٥	0	0	0	0	0	0	0	0	1	1	0	0	0	C	0	0	0	0	0	1	1.	0
11	1	1	1	0	1	0	0	0	1	1	0	••••	****	1	1	1	0	0	1	1	1		0	0	1
12	0	0	0	1	1	1	1	1	2	2	1	,	1	O	1		v		ū	U	U	9	ô	ō	÷
13	0	0	0	0	1	0	0	1	0	0	0	٥	٥	0	0	1	0	000	000	000	0	0	٥	0	ŏ
14	0	1	0	0	0	0	0	0	0	0	0	0	٥	0	0	o	c	0	0	0	. 0	0	. 1	1	
15	1	0	0	0	0	0	1	1	0	1	٥	•	0	0	1	٥	0	٥	0		٥	•	• • • •	٥	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	0	0	0	1	0	0	٥	0
17	0	0	0	9	0	0	1	1	0	1	1	1		1	1	2	2	- 1	1	1	1	1	0	0	
18	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	٥	٥	- 1	
19	1	1	0	0	0	0	0	0	1	2	3	3	3	2	1	1	2	2	2			1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	1
21	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	٥	0		0	1	0
22	1	0	0	0	0	0	0	0	0	1	2	2	2	2	1	2	1	1	2	1	1		•	1	1
22 23 24 25 26	0	0	0000	0000	0	0	1	1	0000	0	0	0	0	0	0	٥	0	0	٥	0	٥	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0		••••		0 -	٥	0	0	1	1	0	0	0	0	000
25	3	0	0	٥	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	ŏ
27	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	- 1	0	0	1	0	0	1	- 2	0	ě
28			0	0	0	0	1	0	1	0	1	0	٥	0	0	0	0	0	0	0	0	0	0	0	ő
29	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0		0	0	0	1	1	1
30	2	3	2	2	1	1	2	1	1	1	1	1	2	1	1	1	1	1	0	•	0	0	0	0	,
MEAN	0	0	0	0	0	0	0	0		1	1	1	1	1	1	1	0	0	0	0	٥	0	0	0	0.4

PERCENTAGE OF DATA VALID - 98.2 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- s	ULPH	UR D10	BOIK								UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	STAT	10N -	SW	NO	15001	1	ESTERN	FAIR	GRO	UNDS	KING	/RECI	ORY . L	ONDON	li:	MON	тн -	KAY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0000-00000	0001100000	00001100000	0000-00000	0000100000	000110000001	0 0 1 1 2 0 0 0 0 0 0 1	0011110000	0 0 1 0 0 0 0 0 1	000000	1 1 0 0 0 0 0 1	000000000000000000000000000000000000000	0 2 1 1 0 0 0 0 1	0 1 1 0 0 0 0 1 0	1 1 0 0 0 0 1	0 1 1 1 0 0 0 1 1 0	011100001	0 0 1 1 0 0 0 1 0	0 0 0 1 1 0 0 0 1 0	00001	0 0 0 0 0 0 0 1 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 1
12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	000000-00	000000000	000000000	00000000	000000100	000000110	0000000-0	000000000	000000000000000000000000000000000000000	0000-000	0-000-0-1	000000000000000000000000000000000000000	000001011	00001	000001		000011011	0 0 0 1 1 0 1 1	00001	00011	00001	00000000	00-00-00-	0 0 0 1 0
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	100100	000000000000000000000000000000000000000	0000000	1001000001	1 4 0 1 0 0 0 0 1 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1110000000	111000000	1 1 2 1 0 0 0 1 0	0000	0 0	1 1 0 0 0 1 1 0	0	0000	1 0 0 0 1	1 0 0 0 1 1 1	1 0 0 0 : 2 1	0001	1 1 0 0 0 1 . 1 0	100000-00	0 1 0 0 0 0 1 0 0	010000100	0100100	1 1 0 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	

PERCENTAGE OF DATA VALID - 97.3 PERCENTAGE OF DATA INVALID - 2.3

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

		- COV II	ON - SW NO 150																						
	SŦ	ATION -	SW	NO	15001		WESTE	AN F	AIR G	ROUNDS	KIN	1/REC	ORY.	LONDO	N	#iCN	тн • ,	MUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0
2	0	0	0		0	0	0	0		0	0	0	0			0	0	3	0	0	0	0	0	0	0
3	0	0	0		0	0	0	0	0	0	0	2	0	0	0	C	0	0	0	0	0	0	0	0	0
4	0	0			0	0	0	0	0	0	0	O	0	0	0	0	c	0	0	1	4	3	1	0	0
5	0	0			0	0	0	0	0			2	C	0	0	0	0	0	0	0	٥	0	0	0	0
6	0	0	0	0	0	0	0	1	0	1	1	1	0	2	2	2	1	1	1	1	1	•	1	1	1
7	1	0	1	1	0	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	1	1	1	0	1	1
8	0	0			0	0	0		1	0	0	C	0	0	0	0	0	٥	0	0	0	0	0	0	0
9	0	0	0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	2	0	0	0	0	0	0	0	0	0
11	0	0			0	0	0	••••		• • • •	••••		3	0	U	0	э	ũ	0	1	0	0	C	2	^
12	0	0	0	0	0	0	0				••••		1	1	1	1	1	7		1	2		2	1	1
13	1	74	-	1	2	3	2	2	2				2	1	3	4	6	5			6	7	6	5	3
14	4	3	3	-						• • • •	1		1	1	1	1	1	,	2	1	0	0	0	0	,
15	0	••••	0	٥	0	1	1	1	- 1	0	٥	٥	0	٥	0	0	٥	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	••••	0	0	••••	••••	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	1	1	,	0	1	1	1	1	,	•	1	1	1	0	0	•
18	0	0	0	1	1	٥	1	1	2	2	2	2	2	1	,	1	1	,	1	0	0	0	0	٥	1
19	0	0	0	0	0	٥	0	0	0	1	3	3	••••	0	•	1	1	0	0	0	0	٥	0	0	0
20	O	0	0	0	0	0	0	0	0	٥	0	0	٥	0	0	٥	٥	0	0	0	0	0	0	0	0
21	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G	0	0	0	0	0	0	1	0
22	- 1	1	٥	0	1	1	1	2	1	1	2	- 1	1	1	1	1	1	1	1	1	1	1	- 1	1	
23	1	1	1	- 1		1	1	- 1			2	- 1	0	2	1	2	2	2	2	3	4		1	0	
24	0	1	0	- 1	1	1	0	- 5		1	3	3	3	2	2	2		3	2	2	1	1	1		1
25	0	0	0	0	0	0	0	- 1	1	0	0	C	0	э	0	٥	٥	0	1 .	•••	1		1	1	0
26	0	0	0	- 3	1	1		- 1	1	1	- 1	1	1	3	1	1		- 1	1	1	-1	1	1	0	1
27 28	0	ö	0	0	0	C	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0
	ŏ	ŏ	0	0	0			0	0	0	_	0		0	0	0		0	0	0	0	0			9
29 30	0	ŏ	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	o	U	O	U	0	0	0	0	0	0	0	٥	0	0	0	Ü	U	U	0	0	0	0	U	0	U
MEAN	0	0	0	0	٥	0	0	0	0	0		1	0	1	1	1	1	1	0	0	1	1	0	0	0.4

PERCENTAGE OF DATA VALID - 94.3 PERCENTAGE OF DATA INVALID - 4.6

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	TANT	. s	ULPH	IUR DIO	XIDE							,	UNITS	· 0	01 PAF	RTS/MI	LLIO	•						
	STAT	ION -	SW	NO	15001	,	VESTERN	FA.	R GRO	UNDS	KING	AECT	CRY, L	ONDON		MON	TH - J	UL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 1 0 0 1 1 1	0000100100	0000100100	0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 1 1 0	0000100100	0001100101	0 1 0 0 1	0 0 0 2 1 0 1 1 0 2	0 0 2 1 0 1 1 1 2	0000	0 0 0 2 1 0 1 1 1 2	0 0 0 2 1 0 1 1 1 2	0 0 0 1 1 0 1 1 2	0 0 0 1 1 0 0 1 1 0 0 1 1 2	0 0 0 1 1 0 1 1 2	0 0 0 1 1 0 2 1 1 2	0001002112	0 0 0 1 0 0 2 1 1 2	0001001102	0 0 0 1 0 0 1 1 0 2	0001002012	0 0 0 1 0 0 1 1	0 0 1 1 0 1 1 1 1 1 1
11 12 13 14 15 16 17 18 19	1000100011	NO0000000	1000000011	200000000011	200000011	1 0 0 0 0 0 0 1 1	000000000000000000000000000000000000000	1000000011	10000000011	100000111	200000000111	2000000	000000000000000000000000000000000000000	0000100111	0 0 0 0 1 0 0 1 1 1	000000000000000000000000000000000000000	0001000122	0000122	000-000-00	0001000122	0001000122	0 0 0 1 2 2	000-000-22	000000000000000000000000000000000000000	1000000001111
21 22 23 24 25 26 27 28 29	1 0 0 0 1 0 1	1000010000	1000010000	000000000	1 1 0 0 0 0 0 1 0 0	200000000000000000000000000000000000000	2000000000	1000010000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10000	1000010000	10000-1000	00001	1 0 0 0 0 1 1 0 0 0	1000001 120	1 0 0 0 1 1 1 1 1 0 0	1 0 1 0 1 0 1 0	1 0 2 0 1 0 2 0 1 0	0 1 0 1 0 1 0	. 0 1 0 2 0 1 0 1 0	000201	0 0 0 1 0 1 0	0 0 0 1 0 1 0	0 0 0 1 0 1 0	0000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	*	1	1	0	0.4

PERCENTAGE OF DATA VALID - 90 7 PERCENTAGE OF DATA INVALID - 0 7

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O OF PARTS MILLION

	200	CLUIA		OLFIN	on 0.	0	•																		
	ST	ATION	- sw	NO	15001		WESTERN	N FA	IR GR	OUNDS	KING	/REC	ORY . L	ONDON		MON	TH ·	AUG	80						
HOUR	1:	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	1.8	19	20	21	22	23	24	MEAN
1 2 3	0 1 0	0 1 0	0 1 0	1 0	0	0	0	0	1 0	0	0 1	1 1 1	1	1	1	1	1 1	!	1	1	1 1	1	1 0	0	1 1 0
4 5 7 8	1 1 1	1 1 1 1 1	1	1 1 1	1 1 2 0	1 1 0	0 0 1 1	0 0 1 1 1 0	0022	2 2 2	2 2 2 0	1 2 1 2 0	1 1 0	2 2 0	4 2 0	3 2 0	1 2 2 3 3	2 2 . 1 0	2 2 1 0	1 2 2 0 0	2 2 0 0	1 0 0	2 2 0 0	1 1 0 0	1 2 1 1
10	0	0	0	ô	0	0	0	Ō	0	Ó	ō	0	0	0	0	C	ŏ	٥	0	0	ŏ.	•	0	0	
11 12 13 14 15 16 17 18 19	0 - 0 - 0 0 0 0	000-000000	0 1 0 0 0 1 0 0	0 1 0 0 0 1 0 0	01000100	000-000000	0001000000	000-000000	0001000	0000000100	1 0 0 1 0 1	:001000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00100010	:011000010	. 0 0 1 0 0 0 2 1 0	001001201	001001100	1000	1 0 0 0 0 1 1 0 0	0 0 0 0 1 1 0 1	0 0 0 0 1 1 0 2	010001002	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0
21 22 23 24 25 26 27 28 29 30	1 0 0 1 1 1 0 1	000000000000000000000000000000000000000	1 0 0 0 1 1 0 0 0	0 0 0 1 1 0 1 0	10000	1 0 0 0 0 0 0 0 0		1000	000000000000000000000000000000000000000	1 0 0 1 1 3 0 0 0	000112000	1 0 0 1 1 1 3 0 0 0	0 1 0 1 0 0 1 0	1 0 1 1 1 0 0 1 0	2010111010	200111111111111111111111111111111111111	2010121021	2010121021	20111221021	2 0 0 1 1 2 1 0 3 1	2 0 0 0 1 2 1 0 3 1	2 0 0 0 1 2 1 0 3 1	2 0 0 0 1 1 0 3 0	1000111020	1 0 0 1 1 1 0 0 1 0 0
31	0	0	0	0	0	٥	0	0	0	0	1	1	0	0	0	0	0	0	0	0	9	0	0	0	0.6
MEAN	0	0	0	0	0	0	0	0	0	1	1		1	1	1	1	1	1	1	1	1	1	4	U	0.6

PERCENTAGE OF DATA VALID - 96.5

PERCENTAGE OF DATA INVALID . 3.1

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION WESTERN FAIR GROUNDS KING/RECTORY.LONDON MONTH - SEP STATION - SW NO 15001 23 24 MEAN 17 18 19 20 21 22 9 10 11 12 13 14 15 0000000000 2000000 0103000000 0107000000 00-4000000 0-00000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000010100 0000000000 12345678910 00000000 00.00000 12000000 .. .. 0000001002 0010010001 0000-20-01 0010-00-00 0010020001 0010-90001 001001001 000-01-10-0000011001 0101121101 0010120102 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 30 01011001 0001001002 0.01010001 0001001001 0001.01001 0001000011 0 0 0 1 0 1 1 01001011 0000-0-0 0 00000000--1000100011 1000000011 1000000011 1000000001 -00000.000 -000000000 -000000000 1000000001 -0000:00-2 -000000012 10000000-1 100000001 1000000011 1000000012 1000100011 1000000011 -000000011 -000000001 1000000000 1000000000 100000000 0 0.3 0 0 0 MEAN

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*-\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OI PARTS/MILLION

	STA	TION	· sw	NO	15001		WESTERN	FAIR	GROUND	S KIN	G/RECT	DRY, L	NOON		MONT	н - с	CT	60						
HOUR	1	2	3	4	5	6	7.	8	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5	000		0000	10000	1 0 0	0 0 0	0 0 0	1 0 0 0 0	1 1 1 0 0 0 0 0 0 0 0 1 0	1 1 0 0 0 0	1 0 0 0 0	1 0 0 0	2 1 0 0	0 0 0	0 0 0	0 0 0 0 0	2 0 0 0 0 0	00000	0 0 0 0	0000	1 0 0 0 0 0	00000	0 0 0 0	1 0 0 0 0
7 8 9 10	0 1 0 0	0	0	0000	0	0000	0	0	1 1 1 - 0 0 1 1	0	0	0 2 0 0	0 2 0 0	0 1	0	0	000	0	0	0000	0	000	000	0
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 1 1 0 0 0 0	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000001000	000000000	0000000000	0000000000	0000000000	000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 1	0000000001	0000000000	0000000000	0 0 0 0 0 0 0 1	0000000000
21 22 23 24 25 26 27 28 29	000000000	000000000	000000100	000000000	000000000000000000000000000000000000000	000000000	00000000	0 0 0 0 0 1 0 0 1	1 0 0 0 0 0 0 0 0 0 0 0 0 1 6	000000000000000000000000000000000000000	0 0 1 0 0 1	0000000	0 1 0 0 0 0 0 2	0 0 1 0 0 0 0 0 4	00000	0001000000	000000000	0000000000	000100000	000000000	00000000	0001001	0000001000	0000000001
31 MEAN	0	0	0	0	0	0	0	0	0 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.1 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.5

MOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	DLLUTANT	- 5	ULPH	IUR DI	OXIDE	1							UNITS	- 0	01 PA	RTS/N	ILLIC	N							1
	S	TATION -	SW	NO	15001		WESTERN	FAIR	GRO	OUNDS	KING	/REC1	ORY.L	ONDON		NON	TH -	NOV	80							
HOUR	Ť	2	3	4	5	6	7	8	9	10	11.	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	ř
1 2 3 4 5 6 7 8 9	00.00000	0	000000000	000000000	0000000	000000000	000000000	. 00000000	. 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0	0010010000	002000	0 2 0 0 0 1 0 0	00200000	001000000	00100000	00000000	00000000	000000.0	00000.0000	000000000	000000000000000000000000000000000000000	000000	000000	000000000000000000000000000000000000000	
11 12 13 14 15 16 17 18 19	1 1 0 0 0		0100000	0 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	1 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 1	2 1 0 0 0 0 1 1	2 1 0 0 - 0 2 1		DATA	2 1 0 0 0 1	2	00000	00000	00000	0 0 0 0 0 1 0	0 0 0 0 1 1 1 1	010001100	0 0 0 0 1 0 1	100000000000000000000000000000000000000	1003	1 1 0 0 0	
21 22 23 24 25 26 27 28 29	200110000	0	2 0 1 1 0 0 0 0 0 0	1 1 0 0 0 0 0	20111011001	1 0 5 1 0 0 0	1 0 5 1 1 0 0 0 0	5 1 0 0 0 0	1 0 5 1 0 0 0 0	5 1 2 1 0 0 1	0 1 3 1 0 2 1 0 1 0	1 2 2 1 1 1 0 0 1 0	1 1 0 0 1 2	0 1 2 0 1 1 0 0 0 1	0 1 1 0 1 0 0	0 1 1 0 0 0 1	0 1 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0 0 1	0010000001	000000001	000000000	000000000000000000000000000000000000000	0 0 1 1 0 0 0 0 1	1 1 2 1 1 0 0 0 0 1	
MEAN	0	0	0	0	0	0	0	0	0		9	1	1	0	0	٥	٥	O	0	٥	0	0	0	0	0.4	

PERCENTAGE OF DATA VALID - 89.4

PERCENTAGE OF DATA INVALID - 7.4

PERCENTAGE OF DATA UNAVAILABLE - 3.2

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT	· \$	ULPH	UR DIOX	ICE	E							DNILLE	5 12 15			25112	N						
	STA	TION .	SW	NO	15001		WESTERN	FAIR	GRO	UNDS	KING	AREC	ORY.	ONDON		MON	TH -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	
1 2 3 4 5	0 0 0	0	10000	000000	00000	000000	0	00000	00000	0 0 1 1 0	0 0 1 5 0	3	0000	1 0 1 0 2	000030	000030	0000000	0 0 0 1	00000000	0 0 0 0	0 0 0 0	00.00	00000	0 0 0 1 0	0 0 1 0
6 7 8 9	0 0 0 0 1	0	0	0 1	0	00001	0	0	0 0 1	0 1 0 1	0 - 0 -	0	0	0 1 0 1	0 0 0	0			0001	0	0	0	0 1 2 0	1 2 0	0 1
11 12 13 14 15 16 17 18 19	0 1 1 1 1 1 1 2 2 1	0 1 1 1 1 2 1 2 1 1 1	0 1 1 0 2 1 2 1 1	1 1 1 1 2 1 2 1 1	0 1 1 2 1 1 2 1 1	1 1 1 1 1 2 1 1	1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	0 3 1 1 1 1 2 1 2 1 2	0 2 1 1 1 1 1 1 1 1 2	0 2 1 1 1 1 1 1 1 2	1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	1 1 1 1 2 1 1 1	1 1 1 2 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 1 1 2 0 1	1 1 2 1 0 1	1 2 1 1 0 1 2 1 1 1	1 1 1	1 1 0 1 2 . 1 1	1 1 0 1 2 1 1	1 1 2	1 1 1 2 1 1
21 22 23 24 25 26 27 28 29	1 1 6 2 0 2 2 1 5 1	1 1 5 2 0 1 2 1 7 1	1 1 5 2 0 2 1 1 6 1	1 1 4 2 0 1 1 1 5 1	1 3 2 0 1 1 1 5	2 2 3 2 0 1 1 1 4 1	2	2 2 3 2 0 1 1 1 4 1	2 2 3 1 1 0 1 4 0	2 1 1 1 2 1 1 4 1	2 1 3 1 1 1 1	2 2 3 1 1 2 1 5 1 1	1 1 2 1 1 5 5	1 2 1 5	1 2 2 1 1 2 1 5	2 2 1 2 2 1 5 1 1	1 2 2 0 1 2 1 3 2 1	1 2 2 0 0 2 1 4	0 1 2 1 2 1 5	2 2 3 0 1 2 1 5 1 1	3301214	2 5 2 0 1 2 1 4 1 0	2 7 2 0 1 2 1 4 1 0	2720112215511	1 2 3 1 1 2 1 3 3 1
31	1	1	0	0	n	c	۰	3	1	•	1	•	,	1	•	1	1	1	1	1	1	1	1		1
MEAN	1	1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1	,	1	1	1	1	1	- 1	1	1.1

PERCENTAGE OF DATA VALID - 96.4 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. . INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW N	0 15001 WESTERN FAI	R GROUNDS KING/RECTORY.LC	ONDON	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	10	1.1	2	4
FEB	29	0.9	2	, 6
MAR	31	0.6	2	. 3
APR	30	0.4	1	3
MAY	31	0.3	1	. 4
JUN	30	0.4	3	7
JUL	31	0.4	1	2
AUG	30	0.6	2	4
SEP	30	0.3	1	4
OCT	31	0.2	1	6
		0.4	2	5
NOV	27	1.1	-	7
DEC	31	0.5	3	7
VEAD	241	0.5		

TIANIO MINISTRI OI IIIE

### MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION	· sw	NO	150	01		WES	TERM	F	AIA	GRO	מאנ:	S KI	NG/I	RECT	ORY	, LOI	400r	ı								
MO	NTH 00	TO	05	06	10	10	11	TO	15	16	TO	20	21	то	25	26	то	39	40	TO	49	50	401	ER	T	DTAL
Ú	AN	4	248			٥			0			0			٥			0			0			0		248
F	EB		583			1			٥			0			0			0			0			0		684
M	AR	7	722			0			0			0			0			0			٥			0	•	722
A	PR		707			0			0			0			0			0			0			0		707
M	IΔΥ	5	724			0			0			0			0			0			0			0		724
u	UN		575			4			0			0			0			0			0			٥		679
u	UL	1	734			0			0			0			0			0			٥			٥		734
	UG	7	718			0			0			0			0			0			٥			٥		718
s	EP	7	704			0			0			0			0			0			0			0		704
0	CT	7	736			1			0			0			0			0			0			0		737
N	ov	•	344			0			0			0			0			0			0			0		644
D	EC	7	712			5			0			0			0			0			٥			0		717
YE	AR	80	007			11			0			0			0			0			0			٥		8018

### FREQUENCY DISTRIBUTION BY PERCENTILES

POLLUTANT - SULPHUR DIOXIDE

 PERCENT OF DATA				FREQUEN		TRATIONS	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
91.3	0	0.0	0.0	0.0	0.3	0.9	1.5	1.9	2.7	7	0.5

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION

	STA	TION	- SW	NO	18007		CONCES	SION	RD.	2. LOT	Δ	TIVERT	ON			MON	тн - ,	JAN	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3	0 0 0	0	0	000	0	0	0	0	0	0	0 0 0	o o .	0.	0	0	0	0	0	0	0	0	0	0 0 0			000
5	0000	0000	0 0 0	0 0	0 0 0	000	000	0 0 0	000	0	. 0	000	0	0	000	0	00000	0	0	0	000	0	0	0		0000
8 9 10	000	000	0000	0000	000	0000	0	0 0 0	0	0000	0000	0000	0 0 0	0000	0000	0 0 0	000	0000	0000	000	0	0 0 1	0	0 0 1		0000
11 12 13 14 15	0 0 1	0 0 0	0 0 0	00000	0 0 0 0	000000	0 0 0 0	000000	0 0 0 0	000000	000000	000000	0 0 0 0	001000	0 0 0 0	0 0 0	0 0 1 0 0 0	0 0 0 0	0 0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 1 0 0	0 0 0		001000
17 18 19 20	0000	0	0000	0000	000	0000	0	0000	0000	0000	0000	00000	0 0 0	0000	0000	0 0 0	0	0000	0000	0000	0000	0000	0000	0 0		0000
21 22 23 24 25 26 27 28 29	000000000	0000000000	0000000000	000000000	000000000	0000000000	000000000	0000000000	00000-0000	0000000000	0000+00000	0 0 0 0 0 0 0	0000100000	00.000000	00.000000	0000100010	000000010	000000000	0000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0 1	0000000000		0000000000

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O. OT PARTS, MILLION

	POLI	UIANI		ULFRU	W D.O.																				
	STAT	ION -	SW	NO 1	8007	C	ONCES	SION	RD.	2. LOT	Δ	TIVER	1011			MONT	TH - F	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN D
1 2 3 4 5 6 7	00000000	00000000	10000001	000000	0 1 0 0 0 0 1 2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0	01000000	010000000	0 1 0 0 0 0 0 1 0	0 2 0 1 0 0 0 1 1	050:0:0:0	040.020.0	0 0 1 0 1 0	000000000000000000000000000000000000000	0 0 1 0 0 1 1 0	00100100	000000211	0 0 0 0 1 1 1	0 0 0 0 0 2 1 1	0 0 0 0 1 1 1	00000000	000000200	000000000000000000000000000000000000000	00000110
9 10 11 12 13 14 15 16 17 18	0 00000000	000000000	00000000	00000000	0 0 0 0 0 0 0 0 1	000000000	00000000000	1 0000000000	000000000000000000000000000000000000000	0000000000	0000000000	0	000000000000000000000000000000000000000	0	0 0000000100	0 0000000100	0 0000000100	0 0000000-00	0 0 0 0 0 0 1 0 0	0 0000000100	0 0 0 0 0 0 1 0 0	0 0000000000000000000000000000000000000	0 00000000000	0000000210	0000000000
20 21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0	0 000001	0 00001000	0 00000000	0 000000000	0 00000010	000000000	000000011	000000000	00000000	00000001	0		00000000	00000000	000000000	000000000	00000000	000000000000000000000000000000000000000	000000000	00000000	000010000	000000000	000010100	000000000000000000000000000000000000000
MEAN	0	0	0	0	0	. 0	0	0	0	0	0	0	o	o	U	U	ú	U	0	0	0	ů	Ú	ŭ	ù.2

PERCENTAGE OF DATA YALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	. s	ULPH	UR D10	XIDE							J.	UNITS	. 0.0	)1 PA	RTS/MI	LLION	•						
		ION -			18007		ONCES	SION	RD.	2. LOT	Δ	TIVER	TON			MON	rH - M	IAR	80						
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
DAY	'	•	•			-													-	_		0	٥	٥	t
1	0	0	0	0	0	0	0	000	3	2	5	7	0	0	0	0	0	0	0	000000000	1	1	1	1	ò
2 .	0	0	0	0	0	0	0	ŏ	0	0	1	0	1	1	1	1	2	0 2 0 0	0	0	0	1	00000	ŏ	ŏ
4	1	ī	1	1	1	1	1	1	0	0	0	1	0	0	0	0	٥	ŏ	ŏ	ŏ	ŏ	o	0	ō	0
5	0	0	0	0 0 0	0	0	0000	0	000000	0	0	0	ő	ŏ	0	0	- 1	1	1	0	0	0	0	000	o
6	0	ŏ	ŏ	0	0	0	ő	000	ŏ	ŏ	0	ŏ	0	0	0	0	0	0	0	0	0	0	0	ŏ	0
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9	ŏ	ō	ō	0	0	0	0	0		0	0	0	0	0	0	2	1	1	ŏ	ŏ	ŏ	o	0	0	1
10	0	1	1	1	0	0	0	0	0	U	7	,			-	-		-	_		0	1		٥	0
11	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0000	0	0	0	0	0	č	ė	Ċ	0	õ
12	1	٥	0	0	0	0	0	0	0	000	C	ò	ò	0000	ŏ	ĭ	ĭ	1	ì	1	1	1	1	1	1
13	0	00000	0	0	0	2		ŏ	õ	ŏ	ŏ	1	ō	ō	ō	0	0	0	0	0	0	00000	0	0	ö
14	0	õ	ö	ŏ	1	ĭ	0	0	ŏ	0	0	0	0		0	0	0	0	0	0	0	0	ö	0	ĭ
16	0	ŏ	0	0	0	1	1	0	0	1	0	1	0	10	ò	0	ò	ò	ò	ŏ	0	ŏ	000	0	0
17	0	٥	0	0	0	0	0	0	00000	0	ŏ	0	ö	ŏ	ŏ	ŏ	0	0	0	0				0	0
18	0	0	0	0 0 0	ö	0	000	ŏ	ŏ	ŏ	ŏ	0	0	1	1	1	٥	0	٥	0	1	0	0	0	1
19	0	0	Ö	ŏ	ŏ	ŏ	ī	ī	1	1	1	2	2	1	1	1	0	0	٥	0	0	U			
21		0	0	٥	0	0	٥	٥	0	0	0	0	2	3		٥	0	0	0	0	0	0	0	0	0
22	0	ŏ	ŏ	0		0	00000000	0		0	0	0	0	0	0	5	0 0 0	0	000	0	0	0	000	ŏ	0
22 23	0	0	0	0	0	0	0	0	0000	0	0	0	0	ő	0	000	ŏ	0	ŏ	0	0	0	0	0	0
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25	0	ō	0	0 0 0	0	0	ŏ	ŏ	ŏ	1	1	1	1	3	2	2	0 0		1	1	0	,	ò	ò	o
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30	0	O	0		- 7			_					٥	0	0	٥	٥	0	G	٥	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	٥		_	-			-		18.		0	0	0	0.2
MEAN	0	0	0	0	٥	0	0	0	0	0	٥	1	0	0	0	0	0	0	0	0	٥	U	Ü		• • •

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . D. DI PARTS/MILLION

	STA	TION	- SW	NO	18007		CONCES	SION	RD,	2. LC	T A	TIVE	TON			::ن	4TH -	APR	ao						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	1.4	15	16	17	18	19	20	21	22	23	24	MEAN
1234567890 1234567890 12345670	0000000000 000000000000000	000000000000000000000000000000000000000		0000000000 0000000000 00	0000000000 000000000 00	0000000000 0000000000000000000000000000	0000000000 0000000000 00	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	DATA DATA DATA DATA	00000000000000000000000000000000000000	:0 - :D - :ID -	0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					000000000000000000000000000000000000000	000000000000000000000000000000000000000			000000000000000000000000000000000000000
28 29 30							_ 3						DAIA	INVAL	ID -										
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c	0	C	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 70.6

PERCENTAGE OF DATA INVALID - 29.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1, "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS . O.O. PARTS, MILLION STATION - SW NO 18007 CONCESSION RD. 2. LOT A TIVERTON MONTH - MAY HOUR 24 MEAN - DATA !NVALID
- OATA !NVALID
- OATA !NVALID
- OATA !NVALID
- DATA !NVALID 2 3 4 5 5 7 8 9 10 12 13 14 15 16 17 18 19 20 DATA DATA DATA INVALID INVALID INVALID 22 23 24 25 26 27 28 29 30 --00000000 -0000000 \*\*\*\*\*\*\*\*\*\*\* 00000-2 2 ò ò ò ó J ū o Ü U v Ü v Ü MEAN 0.2 

PERCENTAGE OF DATA VALID - 52 8

PERCENTAGE OF DATA INVALID - 47.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POI	LLUTAN	T - 1	SULPH	UR DI	OXIDE								UNITS -	0.	0: PA	RTS/M	ILLIO	N						
	ST	ATION	. sw	NO	18007		CONCE	SSION	RD.	2. LO	T A	TIVER	TON			NON	TH -	JUN	80						
HOUR	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
1 2 3 4 5 6 7 8 9	0 0 0	0000	00000	0 0 0 1	0 0 0	0 0 0 1	0 0 0 0 1	0 0 0 1	0 0 0 1	0 0 0 1	0 0 0 1	:	0414 0414 0414 1444	O O O O O O O O O O O O O O O O O O O	) . ) .	0 0 0 0	0 0 0	0 1 0 0 1	0 0 0 1	0 0 0	0 0				0 0 0 1
11 12 13 14 15 16 17 18 19	001000000	0 0 0 0 0	0 1 2 0 0 0 1 0 0	012000100	0 1 2 0 0 0 0 0 0	2000000	200000000000000000000000000000000000000	1 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	000000000	0 1 0 0 0 0 0 0 0	010000100	0 1 0 0 0 0 1 0 0	0 1 0 0 1 0 0	0 1 0 0 0 0	0 3 0 0 1 0 0	0000000000	. 01010000	1 0 2 1 1 0 0 0 0 0	1 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	0000	01100001001	0
21 22 23	0	0	0	o	0	••••	••••	••••	••••	••••	••••	:	DATA DATA DATA	INVALIC INVALIC INVALIC	D -	••••				***			••••	••••	*****
25 26 27 28 29 30	1 0 0 0		0000	0000	0000	0000	0000	1001	0 0 1 1	0 0 1 0	0 0 1 1	0	0	0 0 1	00010	0 0 1 0	0	0 0 1 0	0 0 1 0	0 0 1 1 1 0	0	0	0010	0000	
MEAN	U	U	U	•			•	-	-	-															

PERCENTAGE OF DATA VALID - 62.5 PERCENTAGE OF DATA INVALID - 37.5

PERCENTAGE OF DATA UNAVAILABLE - O.C.

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIQ MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

HOUR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 1 0 0 0 0		POLLUT	ANT	- 50	LPHL	IR DIOX	IDE								UNITS	- 0.0	1 PAF	TS/MI	FFIO	N						
HOUR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1 1 1 1 0 0 0 0		STATIO	N -	SW	NO 1	18007	,	CONCES	SION	RD.	2. LOT		TIVER	TON			MONT	M - 3	UL	80						
1		1 2	2	3	4	5	6	7		9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18	000000000000000000000000000000000000000	000000000000000000000000000000000000000	100010000 00001	100000000 00101000	000000000000000000000000000000000000000	100000000 00000000	100000000 00000000	-00000000 000-0000	1001010010000	010102011	010102111 010201	00010222110080201	1000MMM.0 0:10:0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 1 1 0 0 2 3 0 1	0 2 0 1 1 0 0 0 1	1 0 0 1 0	111001100 00010010	0 0 0 1 0 1	0 00000100	10000001 0000010	000002	00000003 0001000	1000000001 000-00000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN D 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 0 0 0 0	20 21 22 23 24 25 26 27 28 29 30	ō		0					٥	0	o	ò		C DATA DATA DATA DATA DATA CATA CATA DATA	NVAL NVAL NVAL NVAL NVAL NVAL NVAL NVAL	0		0		٥	0	o			0	0.4

PERCENTAGE OF DATA VALID - 63.7 PERCENTAGE OF DATA INVALID - 33.5

PERCENTAGE OF DATA UNAVAILABLE - 2.8

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

(4):																									
	S	OITAT	N . SW	NO	18007	1	CONCE	SSION	RD.	2. LQ	T A	TIVE	FION			MON	ith -	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	1.0	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8										ve	Ł		DATA DATA DATA DATA DATA DATA DATA	I NYALI I NYALI I NYALI I NYALI I NYALI I NYALI I NYALI I NYALI	0 - 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				-						
11 12 13 14 15 16 17 18 19	***	****	0 0 0	0000000	0000	0000000	0 0 0 0 0 0	0000000	000000	0000000	000000000000000000000000000000000000000	0	0	0		000000000000000000000000000000000000000		20000000	2 0 0 0 0 0 0 0 0 0	20000000	10000000	000000	00000000	0000000	0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000	00000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000000000	0000000000	0000000000	000000	0000000:.00	000000000	0000000000	00000000000	00000000000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	00000000000	000000000000000000000000000000000000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 58.6 PERCENTAGE OF DATA INVALID - 41.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	· s	ULPH	UR DIO	301x							9	UNITS	- 0.0	1 PAR	RTS/M:	LLIO	N						
	STA	TION .	SW	NO	18007		CONCES	SION	RD.	2. LO	T A	TIVER	TON			HONT	rH - s	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	MEAN
1 2 3 4 5 6 7 8 9	0000000000	000000000	000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	000000000	00000000	0	000000000	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000	0000000000	0000000000	000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 1	0000000001	000000000000000000000000000000000000000	0000001000	000000000000000000000000000000000000000	000001002	000000001	00000001	0000000001		000000001	000000001	000000001	00000000	0000000000	0000000000	000000000	0 0 0 0 0 0 0 0	0000000000	000000000	000000000	000000000	00000000
21 22 23 24 25 26 27 28 29	0100100100	0 1 0 0 1 0 0	0 1 0 0 1 0 0 0	00001001	0 0 0 1 0 1	0000100001	0000100001	1 0 0 0 1	000000000000000000000000000000000000000	1 0 0 0 1	100001100002	100000000000000000000000000000000000000	1 0 0 1 0 0 1	1 0 0 0 1	1 0 0 2 1 0 0 1	00021	10002100002	1 0 0 1 1 1 0 0 0 4	1 0 0 2 1 1 0 0 0	1 0 0 2 1 1 0 0 2 2	1002010012	1 0 0 2 0 1 0 0 1 1	1002010001	10002001	1 0 0 0 0 1
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXICE

	ST	ATION	- SW	NO	18007	,	CONCE	SSION	RD.	2. LO	T A	TIVER	TON			MON	тн -	OCT	80						
HOUR	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	,	1	1	1	1	1	1	1		1	1	2	2	2	2	2	2	3	****	10	1	1	1	1	1
2	- î	1	- 1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	0	0	0	0	1
3	ò	Ó	ò	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	a	0	1	1	1		- 1	,
4	- 7	ĩ	. 1	- 1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 1
6	i	1	1	1	2	0	0	2	0	2	2	2	2	0	2	2	3	2	1	1	0	0	0	0	1
	ó	0	a	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	٥	ě
7	ŏ	ŏ	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	2	- 1	
8	ī	ī	ī	1		1	1	1	1	1	1	- 1	1	1	1	1	1	0	٥	0	1	1		2	!
	2	Ó	ò	0	0	0	0	0	0	0	••••	••••	••••	1	1	1	1	1	1	1	1	1	1.	1	- 1
10	ī	1	ĭ	1	1	1	1	1	1	1	1	1	1	1	1	1	,		0	0	0	1		1	1
11				••••					••••		••••		0	0		-1	1	1	1	1	1	1	1		•••••
12	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	- 2		
13	1	1	1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1	!	- 1		8
14	٥	1	1	1	1	- 1	1	1	0	0	1		1	1	1	1	1	1	1	1	1	- 1			4
15	1	1	1	1	1	1	1	1	1	1	2		1	1	- 1	1	1	1	1	1	1	1	- 3		
16	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	0	0	2	:	
17	1	1	1	1	- 1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	- 2	- :	- 1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	*	- 1	1	1	1		- 3	- 1		
19	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	- 1	- 1	1		1	1			
20	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1			,	,	- 1	.1	,	•	191	180
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	!
22 23 24 25 26 27 28	1	1	1	1	1	1	1	1	1	1		. 1	1	1	1	2	1	1	1	1	1	1	- 1	2	- 1
23	1	1	1	1	1	1	1	٥	٥	0	0	0	0	0	0	0	0	0	0	1	1	1	- ;	- 1	1
24	2	1	1	1	1	1	1	1	1	1	1		2	2	2	2	2	- 1	1	1	1	ò	i	i	1
25		1	1	1	1	1	1	1	1	- 1	1	1		1	1	1	ò					ž	ó	ò	ò
26	0	0	0	0	0	0	0	0	1		- 1		0	0	0		ŏ	0	0000	000	0000	0	0	ŏ	ō
27	٥	٥	0	٥	0		0	0	1	- 1	1	1	1	7		100	ŏ	0	ž	ž	ž	ŏ	ŏ	ŏ	ŏ
28	0	0	0	0	1	,	0	0	0	1	- 1	0		0	0	0	ŏ	Ö	ž	ž	×	ŏ	ŏ	ŏ	ŏ
29 30	0	0	٥	0	0	0	0	0	0	0	0			2	0	ö	ŏ	ő	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
30	0	0	0	0	0	0	0	0	0	0	0	0	0	U	U	٠	٠	٠	٠		٠	E1	_		_
31	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	٥
MEAN	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	•	1	1	1	0.8

PERCENTAGE OF DATA VALID - 97.3 PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- s	ULPHU	R DIO	XIDE							,	INITS	- 0.0	1 PAR	TS/MI	LLION	•						
	STAT	TION -	SW	NO 1	8007	c	ONCES	SION	RD.	2. LOT	A	TIVER	ON			MONT	H - N	VO	80						
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	000000000	00000 4.000	000004000	000000000	1000102000	100000000	1000000000	1000000000		1000000000	-000000000	000000000	1010000000	0010000000	0010000000	0020001000	101000000	000001000
11 12 13 14 15 16 17 18 19 20	0000000000	0000000000	4000000000	2000000000	100100000	0000000000	000000000	000000000	0003030000	000000000000000000000000000000000000000	0000000000	0000000000	000000001	000000000	000000000	000000000	0 0 0 0 0 0 0 0 1	00100001	00000000	0 0 0 0 0 1 0 1	000000000000000000000000000000000000000	000000101	00000001	000000000000000000000000000000000000000	0 0 0 0 0 0 1
21 22 23 24 25 26 27 28 29 30	0 0 1 0 0 0 0 0 0	001020000	0010200000	0010200000	0000000000	0000000000	0 0 0 0 0 0 0 0	000000000	000000000	000000000	0110000000	0110000000	0111100000	0010100000	0011300001	0010200000	00000	0000000	0103000000	000000000	0001000000	0 0 0 0 0 0 0 0	0100000000	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
MEAN		0	0	0	0	0	0	٥	0	۰	0	٥	0	٥	0	0	0	0	0	0	٥	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DICKIDE

UNITS - O OF PARTS MILLION

	STAT	ION	SW	NO	18007	c	ONCES	SION	RD.	2. LOT	A	TIVERT	ON			MONT	н - с	EC	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 1 1 0 1 1	0 0 1 1 0 1 1	0 0 1 1 0 1 1 1 1	0 0 1 1 0 1 1	0	0 0 1 1 1 0 1 1	0 0 1 1 1 0 1 1	0 0 1 1 0 0 1 1	0 0 1 1 1 0 0 1 1	2 1 1 1 0 0 1 1 1	0021110011	0 0 3 1 1 1 0 0 0 1 1	0 0 1 1 0 0 1 1	1 0 2 0 1 1 0 0 1 1	0 1 1 0 0 1 1 1	0 1 1 0 1 2 0 0 1 1	0 1 1 0 1 2 0 0 1 1	0 1 2 0 1 1 0 0 1 1	0 1 2 0 1 1 0 1 1 0	0 1 1 0 1 1 1 1	0 1 2 0 1 1 1 1 1	0 1 2 0 1 1 1 1 1	0 1 2 0 3 1 0 1 1 1	0 1 2 0 3 1 0 1 1 1	0 0 2 1 1 0 0 1 1
11 12 13 14 15 16 17 18 19	1 0 1 1 1 1 1 1 1 1	1 0 1 1 1 1	1 0 1 1 1 1 1	1 0 1 1 1 1 1	0	1 1 0 1 1 2 1 1	1	1 1 1 1 1 1 1	1 1 1 0 1	1 1 1 1 0 1	2;			YAILAB		1	1 1 1 1 2 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
21 22 23 24 25 26 27 28 29	i	i	ĩ	Ť	i	i	i	i	į	Ä	î	- DAT - DAT - DAT - DAT - DAT - DAT	A UNA A UNA A UNA A UNA A UNA	VAILAB VAILAB VAILAB VAILAB VAILAB VAILAB	LE - LE - LE - LE -	1	;	1 1	1	;	;	1	1	1 .	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŭ	v
MEAN	1	1	1.	1	1	ï	1	1	1	1	1	i	1	1	1	1	1	1	1	1	ĭ	1	1	1	0.8

PERCENTAGE OF DATA VALID - 63.7 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 35.8

MOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SW	NO 18007 CONCESSION	RD. 2. LOT A TIVERTON		42
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.1	1	i
FEB	29	0.2	1	5
MAR	31	0.2	3	7
APR	21	0.0	0	2
MAY	16	0.2	1	3
JUN	18	0.3	3	3
JUL	20	0.4	<b>3</b>	8
AUG	. 18	0.0	0	2
SEP	30	0.2	1	4
ост	30	0.8	2	3
NOV	30	0.2	ì	5
DEC	19	0.8	2	3
YEAR	293	0.3	2	8

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0 01 PARTS/MILLION

300								
SW NO 180	007 CCN	CESSION RD.	2. LOT A	TIVERTON				
00 TO 05	06 10 10	11 TO 15	16 10 20	21 TO 25	26 TO 39	-i0 TO 49 !	50 SOVER	TOTAL
741	0	0	o	0	O	3	0	741
691	o	٥	O	0	٥	o	0	691
740	1	0	o	c	0	o	0	741
508	٥	0	0	0	0	3	. 0	508
	0	0	0	٥	o	0	0	393
		0	o	0	٥	0	0	450
			0	o	0	0	0	474
					0	c	0	436
				_	U	u	v	/14
								724
								719
								474
				121				7065
7062	3	0	0	0	0	0	0	7005
	00 TO 05 741 691 740 508 393 450 472 436 714 724 719	00 TO 05 06 TO 10  741 0 691 0 740 1 508 0 393 0 450 0 472 2 436 0 714 0	00 TO 05  06 TO 10  11 TO 15  741	00 TO 05 06 TO 10 11 TO 15 16 TO 20  741 0 0 0 691 0 0 0 740 1 0 0 508 0 0 0 0 393 0 0 0 0 450 0 0 0 472 2 0 0 714 0 0 0 0 724 0 0 0 0	00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25  741 0 0 0 0 0 0  691 0 0 0 0 0  740 1 0 0 0 0 0  508 0 0 0 0 0 0  393 0 0 0 0 0 0  450 0 0 0 0 0  472 2 0 0 0 0  714 0 0 0 0 0 0  724 0 0 0 0 0  719 0 0 0 0 0	00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39  741 0 0 0 0 0 0 0 0  691 0 0 0 0 0 0 0  740 1 0 0 0 0 0 0 0  508 0 0 0 0 0 0 0 0  393 0 0 0 0 0 0 0 0  450 0 0 0 0 0 0 0  472 2 0 0 0 0 0 0  714 0 0 0 0 0 0 0  724 0 0 0 0 0 0 0  719 0 0 0 0 0 0	00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 7 741 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 TO 05  06 TO 10  11 TO 15  16 TO 20  21 TO 25  26 TO 39  40 TO 49  50 60VER  741

PREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID MIN 10 CONCENTRATIONS
FREQUENCY DISTRIBUTION, PERCENT
50 70 90 95 ARITH 98 99 30 1.8 1.4 80.4 ٥ 0.0 0.0 0.0 0.0 0.7 0.9

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POL	UTANT	- s	JLPHU	R DIO	XIDE							1	UNITS	- 0.0	01 PA	RTS/MI	LL1C	N						
	STAT	ION -	WC	NO 2	1006	P	0ST 0	FFICE	BRAN	TFOR	0					MON	TH - J	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	0100002001	0 1 0 0 0 0 1	010000000	0-0000000	00000000	0100000001	0 0 0 0 0 0 0 1	0 1 0 0 0 0 1	0 1 1 0 0 0 0 0 1	0 1 1 0 0 0 0 1	0 1 0 0 0 1	0 1 0 0 0 0 0 0 0 0 2	0 1 0 0 1 0 0 1	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1 1 0 0 0 1	0 0 0 0 0 0 1	0100000001	0000010001	000000001	000000000	0000010001	0 0 0 0 1 0 0 0 2	000000000	0 0 0 0 2 0 0 1 2	0 1 0 0 0 0 0 0 0 1
11 12 13 14 15 16 17 18 19	001007100	1 6 0 1 1 0 2 1 0 0	1 0 0 1 1 0 2 1 0 0	1 0 0 1 1 0 3 1 0 0	1002003100	0001002100	0001002100	1 0 0 1 0 0 2 1 0 0	0010001100	0010001100	000000000000000000000000000000000000000	00200000	0 0 3 1 0 0 1 1 0 0	0 3 1 0 1 1 1 0 0	0 0 2 1 0 1 1 1 0 0	000000000000000000000000000000000000000	0 0 2 0 0 0 0 0 0	000000000000000000000000000000000000000	0010001100	001000	0 0 1 1 0 0 0	0010001000	0010011000	0 0 1 0 0 0	0 0 1 1 0 0 0
21 22 23 24 25 26 27 28 29 30	00000	0 0 0 1 0 0 1 2 1	0000100111	0 0 0 1 0 0 1 1 1	0000110010	0000110010	0000-000-0	0 0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 0 1 0	. 1 0 0 1 0		000	000000000000000000000000000000000000000	1 0 0 2 0 1 0 0 0	0000001	1 0 1 1 0 1 0	0 1 0 1 0 0 1	0 0 1 1 0 0 1	0 0 0 1 1 0 0 0 0 1	0 0 0 0 0 0 1	0 0 0 0 0 0 1	0 0 0 1 0 1	0 0 0 1 0 0 1	0 0 0 1 1 0 0 1	0000
31 MEAN	1	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.1

<sup>\*-</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . 0.01 PARTS/MILLION

	STA	TION		WC NO	21006		POST	OFFICE	BRAN	NTFOR	90					NOta	TH - 1	FES	80						
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
	1	1	2			11	1	1	1	0	0		0	0	0	0	0	٥	1	1	1	1	1	0	1
2	1	1	1	1	1	1	1	0	1	- 1	1		1	1	Ċ	1	0	2	2	2	0	,	1	1	į
3	1	1	1	1	1		1	1	1	- 1	0	o	9	0	C	٥	0	٥	0		0	0	1	2	!
4	3	2	1	1	1	1	0	0	1	1	• • • •	•						ř.				•			
5															ABLE	•									
6														LIAVE		*									
7												- CA	TA UN		ABLE		. 2		-				-	4. 2	
8	**							-	*		••••		• • • •		3	3	4	-4	7	6	5	4	5	5 .	
9	5	5	5	5	5	4	4	3	3	3	3	3	1	1	1	2	2	3	3	4	4	3	3	3	3
10	2	2	2	2	2	2	2	3	4	3	3	3	2	2	2	2	2	2	2	2	2	2	3	2	2
11	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	1	4
12	ī	- 7	- 1	1	1	- 7	- 1	2	2	2	2	2	1	1	1	1	1	1	ī	2	2	2	2	2	1
13	•	4	2	2	, ,	2	2	2			2	ī	0	,	1	1	1	2	2	3	3	3	2	2	2
14		2	5	3		3	3	4	4	4	4	2	1	0	0	0	0	1	0	0	1	1	1	1	2
15	2	2	•		2	2	ĩ	1		1	1	- 7	1	ī	- î	1	1	1	1	1	1	2	1	2	1
16	7	- 7	7	,	- 1	1	- 1	- 1	2	3	3	,	î	1	1	1	1	1	1	1	1	1	1	1	1
17	i	- 4	- 1		i		- 1	i	7	1	ī	1	ó	0	ó	1	1	•	1	1	2	1	1	1	1
18	•	i	- 1	i		2	1	1	i i	1		1	1	2	2	2	1	1	1	2	2	2	2	2	1
19	2	3	-	5	4	3	3	4	4	3	3	2	1	ī	2	2	2	3	3	3	3	3	3	4	3
20	2	2	2			2	3	4	4	3	3		2	2	1	1	2	2	2	2	1	1	1	1	2
-					_	_	_	_	_	_		_			_										
21	1	- 1	- 1	1	2	2	2	2	2	2	2		1	- 1	2	1	- 1	- 1		1	- 2	- :		- 1	
22	•	1			1	1	- 1	1	1	- 2	2	2	2	3	3	3	4	- 1	1	1	1			ò	•
23	1	1	1	1		1	1	1	2	3	3	3	2	2	2	3	5	2	2	2	2	2	ò	ő	á
24	0	0	0			0	٥	0	0	0	0		٥		0	0	ŏ	0	o	0	0	0	o	ő	č
25 26 27	0	0	0			0	1	0	1	0	0				0		00000	0	0	0	0	0	Ö	ŏ	ŏ
26	0	0	0		0	0	0	o	0	. 0	0		0	0	0	0	õ	0	0	0	0	9	ŏ	ő	ŏ
27	0	0	0			0	0	0	0	. 0	0		0	0	0	0	2	ŏ	8		0	ŏ	o	ŏ	ŏ
28	0	0	0			0	0	0	0	0	0		0	0	o	0	0	0	0	0	ő	ŏ	o	ő	ŏ
39	٥	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	U	U	J	U
MEAN	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 85.1 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 13.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- 51	JLPH	UR DIO	LIDE					ÿ		į	UNITS	- 0.0	I PAR	RTS/MI	LLICE	4						
	STAT	ION -	WC	NO	21006	PC	ST C	OFFICE	BRAN	TFOR	D					MONT	H - M	AR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	REAN
1 2 3 4 5 6 7 8 9	0101101000	0 1 0 1 0 0 0 0 0 0	0 1 0 1 0 0 0 0	0200001000	000000000000000000000000000000000000000	1 2 0 0 1 1 0 0 0	1 1 0 0 1 0 2 0 0 0	20000000	121010211	0	0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	300101	0 0 0 1 2 0 0 1 0	0 0 0 1 1 0 0 1 1 1 0	0001100011	0 0 0 1 1 0 0 0 1 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	100010000000000000000000000000000000000	100200000	1002010010	1001000000	1 1 0 1 0 0 0 0 0	1 0 1 1 0 0 0 0 0 0	0 1 0 1 0 0 0
12 13 14 15 16 17 18 19	000011002	0 1 0 1 0 0 0 2	0 1 1 0 1 0 0 0 2	011020002	0 1 1 0 1 1 0 0 2	0 1 0 3 1 0 0 1	0 0 1 0 3 1 0 0 2	00002	000011002	00001	000021001	000000000000000000000000000000000000000	0010001	0 0 0 1 0 0 1 1	0 0 0 0 1 0 0 1 1	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	300-00-0	5 0 0 0 0 0 1 0	N 300000-0	, ,000-0000	0000+0000	000000000	0000000000	0 0 0 0 0 1
21 22 23 24 25 26 27 28 29	000000110	0 0 0 0 0 1 1 1 0	0 0 0 1 0 0 1 1 1 0	0 0 0 1 0 0 1 1 0	0 0 1 1 0 0 1 1 1 0 0	0 0 1 1 1 0 1 1 0	0 0 1 1 1 1 1 1 1 0	0 0 0 1 1 1 1 0 0	0001012100	0 0 0 1 0 1 2 1 0 1	0000	0001001200	000-000201	0000100100	00000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 1 1 0 0	0 0 0 0 0 0 1 1 0 0	0001001100	0 0 1 1 0 0	0 0 1 1 0 0	0001	0 0 0 1 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 MEAN	0	0	0	0	0	0	•	•	0	0		0			0										0.4
ME AM		U	U	0		76		1				- 4	•				•	•		•			-	•	

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O.O. PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - APR 80 POST OFFICE BRANTFORD STATION - WC NO 21006 22 15 16 19 20 21 13 . 10 11 12 HOUR DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
CATA UNAVAILABLE
CATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE 1 2 3 4 5 6 7 8 9 10 0 0 ò 0 0 0 0 ò 0 0 o 0 0 ò ò 0 0 0 0 0 a o 0 0 . 100001010 01000111 11 12 13 14 15 16 17 18 19 20 110001 -00000-0-0 20000000-0 000000-01 -00000-000 00000101 000001 00000-0-0 000001 0000000000 0-00000-0 00-00-0-0 100011 0000-0-0 00. 000-00000000 00000-00 000-00001000 0000-0-0 0000-0-0 20121 0-0 o 2 0 ò ò ò 1110000012 0 0 0 0 0 2 0 0 0 0 0 21 22 23 24 25 26 27 28 29 30 ------1110000003 t 1210. 191000000 -----00 000--000 0001-023 000000 000 10100011 00 00 100-0003 .00 00001 000 00 000-00 0000 00 0 10011 0 00 001 0011 0 0000 022 001

PERCENTAGE OF DATA VALID - 68.5

0

MEAN

PERCENTAGE OF DATA INVALID - 3.2

PERCENTAGE OF DATA UNAVAILABLE - 28.3

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٥ 0 0 0 0.5

1 1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\* - \* INDICATES DATA IS UNAVAILABLE

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3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.0														- 0.0	1 PAR	TS/M	LLION							
	STAT	ION -	WC	NO 2	1006	9	-051 0	FFICE	BRAN	TFORD	Ě					MONT	H + 1	YAN	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 ME	EAN 1
1 2 3 4 5 6 7	1000000	1 0 0 0 0 0 0	1001110000	1001011000	1 0 0 1 0 0 0 0	100101000	2002010000	2001100001	2001110001	00011	0 0 0 1 1 0 0 0 0	1 1 0 0 0	0000000000	0000000000	00000-0000	000000000	0000000000	100001	0000100001	0000010001	0001110000	0001010000	0000-0000	0 1 0 0 0 0	0 1 0 1 0 0 0
10 11 12 13 14 15 16 17 18	0 0000001000	0 0000001000	0 0 0 0 0 0 0 0 0 0	0000004000	00000000000	0000011000	0000011000	1000000000	•	000000000000000000000000000000000000000	1000001000	0000001000	000000-000	0 1 1 0 0 0 1 0 0 0	0 1 1 0 0 0 1 0 0 0	0 2 1 0 0 0 1 1 0 0 0	000-0000	0010010000	0000010001	0010010001	001001	0 0 1 0 0 0 0	00000	0000010000	00000
20 21 22 23 24 25 26 27 28 29 30	0 0 0 1 0 0	0000	000100	00000	000000	000000	0 1 0 0 0 0	010000	0 1 0 1 0 0	0 0 1 2 0 0	0000	- DAT	A UN	O O O O O O O O O O O O O O O O O O O	ABLE	0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3000	0 0 0 0	0	0	2 2 0 0	0 1 2 0 0 0	00200	0	0 0 1 0 0
31 MEAN	0	0	0	0	٥	0	o	0	0	•	0	- DAT	A UN	AVAIL O	O O	. 0	0	٥	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 81.7

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 17.7

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

	MINUTE OF MODEL AND STRONGE	OMIN FOR 1960		
POLLUTANT -	SULPHUR DIOXIDE		UNITS - 0.01 PARTS/MILLI	CN
STATION -	WC NO 21006 POST OFFICE	BRANTFORD		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.4	1	3
FEB	24	1.3	э	7
MAR	30	0.4	3	5
APR	2)	0.5	2	3
MAY	25	0.3	1	4
YEAR	131	0.5	3	7

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY C	ROUP	FREQUENCY	DISTRIBUTION	FOR 1980
-----------	------	-----------	--------------	----------

MONTHLY GRO	DUP FREQUEN	CY DISTRIBUT	ION FOR 1	980					
POLLUTANT -	SELPHUR DIE	DXIDE			U	NITS - 0.01	PARTS/MIL	LIGN	
STATION -	WC NO 2100	B POST C	FFICE BRA	NTFORD					
MONTH	00 TO 05	96 TO 10 11	TO 15 1	6 TO 20 2	1 TO 25 2	6 TO 39 40	TO 49 50	LOVER	TOTAL
JAN	731	۰	. 0	0	0	0	0	0	731
FEB	590	2	0	0	0	0	0	0	592
MAR	728	٥	0	0	٥	0	0	٥	728
APR	493	0	0	0	•	0	0	٥	493
MAY	608	0	0	0	0	0	0	0	608
YEAR	3150	2	0	0	0	0	0	0	3152

FREQUENCY	DISTRIBUT	ION BY P	ERCENTILES									
	PERCENT OF DATA				FREQUENCY		TRATIONS	DEDCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	86.4	0	0.0	0.0	0.0	0.3	1.1	1.8	2.5	3.1	7	0.5

	POLL	UTANT	- S	ULPHL	R DIO	MIDE							L	INITS	- 0.0	1 PAS	RTS/MI	LLIO	N						
	STAT	ION -	WC	NO 2	22071	E	XPERI	MENTAL	FAR	M SIN	COE					MONT	тн	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	
1 2 3 4 5 6 7	0 0 0 1 1 0 2 1	000010210	0 0 0 1 0 3 1 0	3 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0001112100	0 1 0 1 1 2 1 0 0 0	0 1 0 1 1 1 1 0 0	0 1 0 2 1 1 1 2 0 0	0 1 0 1 1 1 2 0 0	0 0 0 2 2 1 1 1 0 1	0 1 0 1 2 1 1 0 0 0	1 1 0 0 0	0 0 1 1 2 1 1 0 1	0 0 0 1 1 1 1 1 0 3	0 0 0 1 1 1 0 0 2	0001111001	000111001	0 0 0 1 1 2 1 0 1 0	0 0 0 1 0 3 1 0 0 0	0001041020	0 0 0 1 0 4 1 0 2 1	0 0 1 0 3 1 1 1 2	0 0 1 1 0 3 1 1 1 2	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 11 12 13 14 15 16 17 18 19	1 100100000	1 0 0 1 0 0 0 0 0	1 100100000	0 1001000000	0 100100000	0 000000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0	0000010000	001001000	0 0 1 0 0 0 0	10000000	0010000	0 0 1 0 0 0 0	001000000	0 0 1 0 0	0 0 0 0 0 0 0 0 0	001000000	00000000	00000000	0 0 0 0 0 0 0	0010000000	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 1 1 0	0000010010	0000010000	00000000	0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000010	000000000	0000000000	000000000000000000000000000000000000000	0100010	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100100000	0 1 0 0 0 0 0 0 0 0	00500000000	000010-001	0000001001	0000100001	0 0 0 0 0 0 1 0 0	0 0 0 0 0 1 1 0 2	0 0 0 0 0 1 0 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	1	0.3

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTAN	T - 5	SULPH	UR DIO	301x								UNITS	- 0.	01 PA	RTS/MI	LLIO	N						
	ST	ATION	- w	C NO	22071	E	XPERI	MENTA	L FA	RM SIM	OE					NON	rH - F	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN .
1	0	o		2	2	•	1	0	0	1	1	1	1	1	1	0	1	1	1	1	1	- 1	- :	- :	- 1
2	1	1	ò	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	2	2	1	- 1			- 1
3	1	1	1	1	1	1	.1	-1	1	1	1	1	1	1	1	,		1	1			- 1			
4	- 1	2	2	2	2	1	1	1	1	1	1	2	2	1	2	•	3		2	1	1	ò	ò	ò	ò
5	1	1	1	1	1	1	0	0	1	0	1	٥	٥	0	٥	1	0	-	0	0	0				1
6	1	1	1	2	2	2	1	1	0	0	0	٥	DATA	INVAL	ı D .	0	٥	0				•		_	
á											2	1	1	1	1	1	1	2	2	2	2	2	0	2	*****
8		3	3	2	2	2	2	1	1	1	1	1	2	2	1	1	1	1	1	0	0	0	0	0	
10	1	3	1	1	0	0	1	0	1	1	1	1	1	1	1	1	*	1	0	1	1	0	0	1	
22	_								1	1	2	2	1	1	1	1	1	0	0	0	0	1	1	1	1
11			- 1				÷	- 4	ò	Ó	ō	- 1	1	1	1	1	1		1	1	0	1	1	1	1
13	2	à	- 1		- 1	2	2	i	ĭ	2	2	1	î	2	1	1	2	2	2	2	3	3	2	2	2
14	1	- 1		2	2	1	- 7	i	•	0 2 2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	1
15	ò	ò	•	å	ō	ò	ò	ò	o	ō	1	1	1	7	5		1	1	••••	1	1	1			
16	ĭ	1	- 1	,	ĭ	ŏ	1	ī	ī	1	1	1	1	1	1	1	1	1	1	1	1		1	0	1
17	i	i	ò	•	o	1	î	o	1	1	1	1	1	1	1	1	1	,	1	1	1	,	2	- 1	1
18	2	2	2	2	ī	1	Ŷ	1	1	1	1	2	2	2	2	2	1	2	2	2	2	3		2	2
19	6	6	7	4	3	3	3	2	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2		•
20	ĭ	1	í	2	2	2	2	2	2	2 •	•••	3	3	1	1	1	1	1	1	0	٥	0	0		1
21	٥	0	0	0	0	0	0	٥	0	0	1	1	:	1	!	2	1	1	3	1	0	0	0 1 0 0	0	1
22	- 1	1.	1	1	1	1	1	1	ò	1	- 4	·	- 0	ĭ	- 4	1	1	1	1	0	0	0	0	0	1
23	1	0	1	0	0	0	0	0	o	- 1	ò	o			- 4	i	0	1			0	1	0	0	0
24	1	٥	0		0	0	ŏ	×	ö	- 4	ŏ	0	ò	ò	i	i	1	1	0	ō	1	0	0	1	0
25 26 27	1	0		0	ŏ	Ö	0	ŏ	ŏ	ò	0	0	õ	ŏ	o	1	1	1	1	1	1	1	1	1	0
26	1	٥	0	0	0			·	٠	ĭ	ĭ	ĭ	1	ĭ	1	1	1		1	,	1	1	1	1	1
27	1	0	0	0	· ·				- 1	4	1		- 1	- 1	i	1	1	1	1	,	1	1	1	1	1
28 29	1	i	1	- 4	1	1	ì	i	i	1	1	ò	1	i	î	1	1	1	1	1	1	1	0	1	1
MEAN	1	1	1	1	Ĭ	i	1	•	1	1	1	1	1	1	î	1	1	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 93.1 PERCENTAGE OF DATA INVALID - 6.6

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 22071 EXPERIMENTAL FARM SIMCOE MONTH - MAR 24 MEAN HOUR : 8 2 3 4 5 6 7 8 9 1 2 1 1 2 2 2 2 DATA INVALID 12 13 14 15 16 17 18 19 20 0000--0 0 1 ú. 00. 0000--00 00000+ -011000 0 2 22 23 24 25 26 27 28 29 30 ò 2 0 1 

PERCENTAGE OF DATA VALID - 84.4

MEAN

PERCENTAGE OF DATA INVALID - 15.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

1.0

0.9

NOTES 1. " ... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \* \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXICE MONTH - APR STATION - WC NO 22071 EXPERIMENTAL FARM SIMCOE 24 MEAN HOUR 0000+ 1 2 3 4 5 6 7 8 9 10 0 1 0 Ó Ó o Ó o ò ò 12 13 14 15 16 17 18 19 20 10. 1 0 1 1 2 0 1 0, 1 1 3 1 1 2 22 23 24 25 26 27 28 29 30 1 4 1 100000-0 0 1 1 1 0 1 2 0 1 2 Can 

PERCENTAGE OF DATA VALID - 97.4

MEAN

PERCENTAGE OF DATA INVALID . 1.7

PERCENTAGE OF DATA UNAVAILABLE - 1.0

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	PO	LLUIA	•1 -	SULPHI	UK 010	JAIUL								C. 100 P. 100 P.											
	ST	ATION	. W	C NO :	22071	ε	XPERI	MENTA	L FAR	M SI	MCOE						h · :		80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6	1 1 2 1 1	1 1 2 2 1 1	1 1 2 2 1 1	1 1 2 2 1 1	1 1 2 2 1 1	1 0 1 1 1 1 1 1 1 1	0 0 1 2 1 1 1 1 1	1	1 1 1 2 1 1 1	1 1 2 1	1 1 2 2 1	2 2 2 2 1	2 2 2 2 1 .	2221221	2 2 1 2 2 1	2 2 2 1	2 2 2 2 2 2 2 1	2 1 2 2 1 1	1 2 2 2 1 1	2 2 2 1 1	2 1 1 2 2 1 1 1 1	1 2 1 2 2 1 1 1	1 1 2 2 1 1	1 1 2 2 1 1 1	1 2 2 1 1
8 9 10	1	1	0	0	0	1	0	0	1	0	ò	0	0	0	2	2	2	2	1	0	0	1	1	1	1
11 12 13 14 15 16 17 -18 19	1 0 0 1 1 1 1 0	100110	100100110	10010011	1001001110	1001	100010001100	1 0 0 1 1 0 1 1 0	1 0 0 1 1 1 1 1 1 0	1 1 1 1 1 1 1	1 2  1 1 2 1 1	1 1 1 2 2 1 1 2	1 1 2 2 1 1 2	1 0 1 1 2 2 1 1 1 2	1 0 1 1 2 2 - 1 2	1 0 1 1 2 2 1 1 2	1 0 1 1 2 2 2 1 1 1	1 1 2 2 2 2 1	1 0 1 1 2 2 1 1 1 1	0 0 1 1 1 1 2 1 1 1 1	0 0 1 1 1 1 2 1 1 1 1	0 0 1 1 1 2 1 0 1	0 0 1 1 1 2 1 0 1	0 0 1 1 1 1 0 1	1 1 1 2 1 1 1 1 1
21 22 23 24 25 26 27 28 29 30	0 1 2 0	٥	202111001100	2 1 2 1 1 1 0 1 1 0 0	211000	1 1 1 1 0 0 0 0	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 0 0 2 2 1 1	2 2 0 0 0 2 2 2 2	2 2 2 0 0 1 3 3 2	2 2 2 1 3 3	2 2 3 2 1 1 3 1 3	2 3 2 1  1	2 2 2 2 1 0 1 2 2 1	2 2 3 1 0 1 2 2 2 2	2 3 2 2 1 0 1 2 0 2 2	2 3 2 2 1 0 1 3 0 2 2	2 3 3 2  0 1 3 0 2 2	1 2 5 2 1 0 1 3 0 2	1 2 3 2 0 0 1 3 0 2	1 2 2 1 1 0 1 3 0 2 1	1 0 0 1 3 0 2	0 .	2 2 2 1 1 2 1 1 2
31 MEAN	1	_	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	2	i	1	x	1	1	,	1.1

PERCENTAGE OF DATA VALID - 96.5

PERCENTAGE OF DATA INVALID - 3.1 PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POI	LU	TANT	- s	ULPH	UR DI	OXIDE								UNITS	. 0	01 PA	RTS/M	ILLIO	N							
	ST	ATIO	on -	WC	NO	22071		EXPER	IMENT	AL FA	RM 51	MCOE					MON	TH -	JUN	80							
HOUR DAY	i	;	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 18 19 20 21 22 23 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	11100112100000	•••	111000121000 111-22-0000	1110012100 01.21000	1 1 1 0 0 1 2 1 0 0 0 1 2 2 1 0 0 0 1	1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1	1 1 1 0 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1	1 1 1 1 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1 1	1 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		DATA DATA	INVA INVA INVA INVA INVA INVA INVA INVA	LID -	1 1 2 2 1 1 0 0 1 1 3 2 2 0 0 0 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 2 2 2 1 0 0 1 1 1 1 0 0 0 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 0 0 1 1 2 1 1 0 0 0 1 1 1 2 1 1 1 0 0 0 1 1 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0		1110111110 11.2100.
28 29 30											,	,	•	DATA	INVA	L10 -		1	,	1	,	1	1	,	,	0	. 8

PERCENTAGE OF DATA VALID - 51.4 PERCENTAGE OF DATA INVALID - 47.5

PERCENTAGE OF DATA UNAVAILABLE - 1.1

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION	•	WC	NO S	22071		EXPE	RIMEN	TAL F	ARM 51	MCOE					ΥĊ	NIH -	JUL	80						
HOUR		2	,	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24	MEAN
1															INVALI											
2															: NVALI											
3															INVALI											
4															INVALI											
2														DATA	NVALI	D -										
7															INVALI											
6															INVALI											
ğ											****		- 7	DATA 1	1	٠.			- 1				200			
10	1	1	-	1	1	0	0	1	1		2	2	2			2	3		3	3	3	2	2	2	2	
. •											-	-	4	•	•	-			3	3	3	4	4	2	-	
11	2	2		2	2	2	2	2	2	1	1	1	1	2	2	1	2		1	7	1	- 1	1	1	0	1
12	0			0	0	0	0	0	0	٥	0	0	0	1	1	Ü	ō	1	1	•	o	ò	0	ò	ē	2
13	0	0	(	0	0	0	0	0	1	o	0	0	1	2	1	1	1	1	1	1	1	1	ŏ	1	1	1
14	0	0	(	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	. 2	2	3	3	1	1	1	1
15	1	1		1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1
16	1	1		1	1	1	0	0	0	1	1	t	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	- 3	1	1	1	1		1		1	t	1	1	,	1	1	- 1	1	1	1	1	1	1	1	1
18	0	- 1	9	2	0	1	0	0	٥	0	1	1		1	1	1	- 1	!	1	1	1	1	1	1	1	1
19	,	1			2	1	,	- 4	. !	1	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	2
20	4	- 4	,	2	2	2	2	2	3	2	2	2	3	3	3 *	• • •		• • • •	••••			****	••••	••••	••••	
21														DATA	INVALI	٠.										
22											1	1	- 1	1	1	1	1	2	2		1	2		- 4	-	
23	-		9	•	-								ė	- 2		÷	1	1	- 1	1	•	7	1	1	1	
24	1	1	- (	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1
25	1		1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2
26	2	2		2	2	2	2	2	2	2	2	2	2	2 2 2	2 2 2	2 2	2	2	9		2	1	1	1	1	
27	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2 2 2	2	2	2	2	2 2 2 2
28	2	2	- 4	2	2	2	2	1	1	- 1	1	1	1	1	1	(4)		2	2	2	2	₩		>=	1	2
29	1	1		1	1	1	1	1	1	1		1	3	2	2	2	2	2	2	2	2	2	1	2	2	2
30	2	2		2	2	1	1	1	1	1	1	1	1	1	1	- 1	1	2	1	1	1	1	1	1	1	1
31	1	0	,	••	••	٥	0	0	0	0	1	1	1	1	1	1	1	. 1	1	2	1	Ť	1	1	1	1
MEAN	1	1	1	(	1	3	1	1	1	ì	j	1	1	2	2	1	1	2	2	2	1	1	1	1	1	1.2
PERCEN	TAGE	OF DA	74 1	/A 1 T		e2 2			BERC		E OF D										A UNA			3.1		

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTA	NT -	SULP	IUR DI	OXID	E							UNITS	. 0.	01 PA	RTS/N	AILLI(	ON						
	\$1	TATION	8 8	IC NO	22071	E	EXPER	IMENT	TAL FA	IRM S	MCOE					MON	TH -	AUG	80						
HOU	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	1 1 0 0 1 1 1 1 1	1 0 0 0 1 1 1 1	1 0 0 0 1 1 1 1	1 1 0 0 0 1 1 1	1 1 0 0 1 1 1 0	0100011	010000100	1 1 0 0 0 0 0 0	1 1 0 0 0 0 0 1 0	1 0 0 1 1 0	1 0 0 0 1 1 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1 0	1 1 1 2 1 1	1 1 1 2 3 1 1	2 1 1 2 2 3 2 1	1 1 2 2 3 2 1	2 1 1 1 2 3 2 1	2 1 1 1 2 2 2 0	2 1 1 1 1 2 2	1 1 1 2 2 0	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 0	1 1 1 1 1	1 1 1 1 1 1 1 1 0
10 11 12 13 14 15 16 17 18 19 20		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0	0 1 1 0 0 0 0 0 1 0	000000	0 1	0 1 0 0 0 0 0 1 0	0 1 0 0 0 0 0 1 0		0 1000	0 0 0 0 0 0 0 1		0		0	0	0	0 0 0 0 1 1	0	0 0 0 0 0 1 1	0	0
21 22 23 24 25 26 27 28 29 30	0 1 0 1 1 2 0 0	0 1 0 0 0 1 1 2 0 0	-	0 0 0 1 1 1 0 0	0 0 0 0 1 1 1 0 0	0 2 0 0 0 1 1 1 0 0	00000	010000	0000	0000	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 2 0 0	1 1 1 1 2 2 0 1	2202	33002	1 1 2 3 0 2	3 3 0 3	2 1 2 3 3 3 0 3 0 3	2 1 1 2 3 3 0 2 1	1 1 0 1 3 2 0 1	1 1 0 1 2 2 0 1 1	1 1 0 1 2 1 0 1 1	1 1 0 1 1 2 0 1 1	1 1 1 0 1 1 2 0 1 1	1 1 1 0 1 2 2 0 1
31 MEAN	1	1	0	1 0	0	0	0	0	0	1 0	0	î		1	2	1	1	1	1	1	1	1	1	1	1. 0.7

PERCENTAGE OF DATA VALID - 92.1 PERCENTAGE OF DATA INVALID - 7.7

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- \*- INDICATES DATA IS UNAVAILABLE
- 3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

BOLLUTANT - SHIPHUR GIOTICE

UNITS - O.CI PARTS/MILLION

	PO	LLUTA	NT -	SULPI	HUR DI	OXIDE	•							0.41.3											
	ST	ATION	. 1	VC NO	22071	1	EXPE	RIMENT	AL FA	RM SI	MCOE					HON	TH -	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
1 2	!		1	!	!	!	!	1	:	!	••••	!	:	0	0	1	:	1 0	1 0	1	0		0	0	!
4	0	0	0	0	0	0	. 0	0	ė	ò	i	Ĭ.	2	2	3	3	3	2	1	1	1	1	0	0	1
6	1	;	;	1	0	1	1	Ĭ		1	0	1	2	1	1	1	1	1	1	1	1	0	1	0	. 1
8 .	1	1	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	ò	0	1
10	0	0	0	0	0	0	0	0	0	0	1	1	1	1	,	1	,	1	1	1	1	. ,	1	1	1
12	1 0	1	0	0	0	0		0	0	0	0	0	0	0	0	00	000	000	0	000	0	000	0		0
14 15	0	0	0	0	0	000	0	-	0	0	0	0	0	0	000	00	000	0	0000	000	0	0	0	0	
17	0	0	0	0	0	0	0	0	1	0	1	0	0	0	9	3	3	1	0	0	0	0	0	0	0
19	2	1	1	;	0	0	1	0	0	1	0	ì	ì	2	2	2	2	2	2	ì	i	i	i	į	i
21	1	1	;	1	1	1	0	0	0	0	1	0	1	1 0	1 0	1 0	1	1	1 0	1 0	1	1 0	1	1	1
23 24 25	0	0	0	0		0	0	0	0	1	0	1	1	Ĭ	Ĭ	1	Ĭ	1	1	1	1	1	1	1	1
24 25 26 27 28 29	0	0	0	0	0		0	0	0	1	ò	:	:	1		1	1	1			1	!	!	!	į
29 30	••••	0	0	ò	0	0	0		0	1	i	1 2	2	1 2	3	1	1 2	1 3	1	1	1	1	1	1	1
MEAN	1	0	0	0	0	0	0	0	0	î	j	1	. 1	1	1	1	1	1	1	1	1	1	1	0	0.6

PERCENTAGE OF DATA VALID - 94.4

PERCENTAGE OF DATA INVALID - 5.1

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

- ... INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - O OI PARTS/MILLION

POLLUTANT - SULPHUR DIOXIDE MONTH - OCT 80 EXPERIMENTAL FARM SIMCOE STATION . WC NO 22071 21 22 23 24 MEAN 16 17 18 19 20 11 13 14 15 HOUR 6 9 10 12 0000 0 0 0 1 000-1 2 3 4 5 6 7 8 9 10 00000 00000 00000 00000 1 3 100 0 1 5 ò o ò ò ò 0 0110001100 0100001001 11 12 13 14 15 16 17 18 19 20 0 0000000-00 0000000--0 000000111 0010000110 0000000000 00000-000 00000110 21 22 23 24 25 26 27 28 29 30 1 0 1 000010101 000011 1000101011 0000-00011 0000--1010101 0120101 2010 1 1 1 010101 0 0 0 0 0 0 0 0 0 31 0 0 ٥ 0 0 0 0 0 0 0.5 1 1 0 0 0 MEAN

PERCENTAGE OF DATA VALID - 97.3

PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 1.2

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	PU	LLUIAN		SULPHU	M 010	A I DE									0.0			CLIO.	•						
	ST	ATION	- wo	NO 2	2071	-	EXPERI	MENTAL	. FAI	RM SIM	COE					CON	TH - N	VOV	80						
HOUR	.1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	0 0 0 0 0 1	0 0 0 0 0 1	0 0 0 0 0	0 0 0 0 1	000000	0000000	0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010000	0 0 0 0 0	0 0 0 0 0	0040000	0 0 0 0 0 2	0 0 4 0 0 . 1	0 0 2 0 0 . 1	0 0 0 0	000000	0000	000000	0000000	0 0 1 0 0 0	0 0 1 0 0 0 0	0 0 2 0 0	0 0 1 0 0 1 0	0 0 0 0 0
9 10	0	0 1 0	. 1	0	0	2	0 2 0	0 1 0	1	0	0	0	0	0	0	0	0	6 0	0	0	0	0	0 0	0	0
11 12 13 14 15 16 17 18 19 20	000000000000000000000000000000000000000	0000	0000000000	000000000	0 0 0 0 0 0 0	000000000	00000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	000000000000000000000000000000000000000	0 0 2 0 0 2 . 0 1	001001	0 0 1 0 0 1 1 0 1 1	0010010011	000000000000000000000000000000000000000	00.400.0000	00.40000011	-000000-	00-000000-	00-0000001	00-0000011	00 - 00 00 0 1 1	0 0 0 0 0 0 1	0000000	00:00000
21 22 23 24 25 26 27 28 29	201100.011	301100010	3 0 2 0 0 0 1 0 0	302000000	2030001000	2020001000	1 1 3 0 0 0 1 0 0 0	1 1 4 0 0 0 1 0 0 0	1 0 5 0 1 0 1 1 0	0 0 0 1 0 0 0	1 1 1 0 0	0020121000	0020010000	0120021000	0-2002000	0 2 1 0 0 0 0 0	0 2 1 0 0 0 0 0 1 0	0110000110	0 1 0 0 0 0 0 0 0	0 1 1 0 0 0 0 1 0 0	0 1 0 0 1 1 1	0 0 2 0 1 0 0 1 0 0	0 1 0 0 0 0 1 1 1	0 0 0 0 0 1 1 0	20000
MEAN		0		0	0	0	O	σ	0	0	4	1	0	1	1	٥	1	0	٥	0	0	O	O	0	0.4

PERCENTAGE OF DATA VALID - 98.5 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

.. INDICATES DATA IS UNAVAILABLE

PCLLUTANT - SULPHUR DICKIDE

3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - O OF PARTS/MILLION

EXPERIMENTAL FARM SIMCOE 12 13 14 15 20 21 22 23 24 MEAN 6 8 9 10 11 16 17 18 19 1 2 3 4 5 6 7 8 9 ٥ 0 0000010100 ...0 00000-000 0000-0-000 0100021000 0100311000 0 1 0 1 00000---00 0000--0-00 00000-0000 0 0 0 11000 210100 0 2 0 0 2 0 11 12 13 14 15 16 17 18 19 20 0-00000-00 0100010100 0100010100 0100010100 0 013011 000:000 2100100000 1-00-00000 000001 000102 10011 -00:00000 100100000 00010-00 00100 0 0000 ō 0 21 22 23 24 25 26 27 28 29 30 0 036100123 0251001 0 0021011 0001001330 012101 0120014332 00-004-54-0010011411 02100125 0 1 0 0 31 2 2 2 3 3 2 0 0 0 0

PERCENTAGE OF DATA VALID - 96.9

PERCENTAGE OF DATA INVALID . 1.5

PERCENTAGE OF DATA UNAVAILABLE - 1.6

0.7

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY	OF HOURLY AND 2-HOUR	LY DATA FOR 1980		
POLLUTANT - SULF	PHUR DIOXIDE		UNITS - 0.01 PARTS/MILL	.ION
STATION . WC NO	22071 EXPERIMEN	TAL FARM SIMCOE		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.3	1	5
FEB	27	1.0	3	. 7
MAR	25	1.0	2	9
APR	30	0.9	2	5
MAY	30	1.1	2	5
JUN	16	0.8	2	3
JUL	18	1.2	2	9
AUG	28	0.7	2	3
SEP	29	0.6	ì	3
ост	30	0.5	1	5
NOV	30	0.4	2	8
DEC	31	0.7	3	6
YEAR	325	0.7	3	9

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

						•				(4))	
MONTHLY GR	OUP FREQUE	NCY DIST	RIBUTION	FOR 19	80						
POLLUTANT -	SULPHUR C	MINTE				UN	ITS - 0.01	PARTS/MIL	LIGN		
STATION -	WC NO 220	71	XPERIMEN1	AL FAR	SIMCOE						
MONTH	00 TO 05	06 TO	0 11 10	15 16	TO 20 21	TO 25 26	TO 39 40	TO 49 50	SOVER	TOTAL	
JAN	739		0	0	0	٥	0	٥	0	739	
FEB	644		4	0	0	0	0	0	0	648	
MAR	626		2	0	0	o	0	0	0	628	
APR	701		0	0	o	0	0	0	0	701	
MAY	718		0	0	o ·	٥	0	0	0	718	
JUN	370		0	0	. 0	o	0	0	0	370	
JUL	470		1	0	0	٥	0	0	0	471	
AUG	685		0	0	0	٥	0	0	0	685	
SEP	680		0	0	o	٥	o	υ	0	ERO	
OCT	724		0	0	o	0	0	0	٥	724	
NOV	707		2	0	o	٥	0	0	0	709	
DEC	719		2	0	0	0	o	0	0	721	
YEAR	7783		11	0	o	0	0	0	0	7794	
FREQUENCY	DISTRIBUT	ION BY P	ERCENTILE	s		CONCENTR					
	OF DATA	MIN	10	30	FREQUENCY 50	70 D:STR!BI	JTION. PERG	CENT 95 98	99	MAX	MEAN
	88 7		0.0	0 0	0.2	0.6	1.3 1	.8 2.4	2.9	9	0.7

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS MILLION

37	STA	TION	- WC	NO	22086		CHEAPS	IDE	RD.3	KM S	OF HWY	3.	MANTI	COKE		MONT	н	IAN	80						
HOUR	,	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 6	EAN
1 2 3 4 5 6 7	0 0 0 0 1 0 3 0 1	0 0 0 1 1 0 3 0 1	0 0 0 1 1 0 3 0	0 0 0 1 1 0 2 1 0	0 0 0 1 1 1 1 3 1 0	0 0 0 1 1 4 1 0	0 0 0 0 1 1 7 1 0	0 0 0 1 1 6 1 0	0 0 0 1 1 1 1 1	0 0 2 1 1 1 1 0	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 2 1 1 0	0 0 0 2 1 2 0 1	1 2 0 1	0 0 0 0 0 1 1 1 1	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1	0 0 1 1 0 1	0 0 1 1 0 1	000-0400	0 0 1 0 3 0 0	0 0 0 1 0 4 0 0	0 0 1 1 0 4 0 2	0 0 1 1 0 3 0 1	0 0 0 1 1 1 2 1
10 11	2	2	1 2	1 2	1 2	. 1	1 2	1 2	1	1	1	1	1	2	0	ĭ	1	2	2	i	2	2	3	2	1
12 13 14 15 16 17 18 19	0 0 2 1 1 1 1 1 0	1 1 1 1 0	1 1 1 1 0	1 1 1 1 0	2011	101201110	0 1 1 0 1 1 0	0 1 1 0 1 1 1 0	201101110	2021	2 6 1 1 0 1 2 1 1 0	1 0 1 2 1 1 0	1 1 1 2 1 0 0	1 1 1 2 1 0 0	1 1 1 2 1 0	1 1 1 2 1 1 0	1 1 1 2 1 1 0	1 1 1 1 0	1 1 1 0 0	1 1 1 1 0 0	1 0 1 1 1 0	1 2 1 1 1 1 0 0	1 0 0	0 0 1 1 1 1 0 0	2 1 1 1 1 1 1 0
21 22 23 24 25 26 27 28 29	0 0 1 0 0 0 0 1 3 0	0010010120	0 0 1 0 0 1 1 0	0000010010	0 0 0 0 1 0 0 1 0	0 1 0 0 0 0 0 1 0	0 1 0 0 0 0 0 1 0	020000010	0100000010	0 2 0 0 1 0 0 0 1 0	0 2 0 0 1 0 0 0 1 0	0 1 0 0 0 1 0	0100010000	0100101000	0 1 0 0 1 0 0 0	0 1 0 0 1 0 0 0	0 1 0 1 0 0 1	0 1 0 0 1 0 0 1	0 0 0 1 0 1 0 0 1	0 0 0 0 1 0 0 1	0 1 0 1 1 0 2	0 1 0 0 1 1 1 0 2	0 1 0 1 1 0 1	0 1 0 0 0 1 2 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 MEAN	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1	. 1	0	1	1	0	1	0.6

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES GRANCH

	POL	LUTANT	. 5	ULPH	UR DIOX	IDE						1	UNITS	- 0.1	DI PAR	RTS/MI	LLION							
	STA	TION -	AC	NO	22086		CHEAPSID	E RD.3	KM S	OF HW	ΥЗ.	NANT	COKE		MONT	TH . F	EB	80						
HOUR	1	2	3	4	5	6	7	B 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 1 1 2 1 0 2 1	0 0 0 1 1 2 1 1 2 1 1 2 1	0 0 0 2 1 2 1 1 2 1	0 0 0 2 0 3 1 1 2 1	0 0 0 2 0 3 2 1 2 1	0 0 0 1 0 2 2 2 2 1	0 0 1 0 2 3 1 2			0 1 0 1 1	0 1 0 1 1 1 2 0 1	0 1 0 1 4 2 1 1	0 1 0 1 4 2 3 1	0 1 1 1 2 1 2 1	0 1 0 1 1 1 1 1 1 1	0 1 1 1 1 1 2 1 1	0 1 1 1 1 1 2 1 1	1 1 1 1 2 1 0	1 2 0 1 0 1 1 2 2 0	1 2 0 1 0 1 1 3 1 0	0 1 0 3 1 1	0 1 0 1 0 3 1 1	0 1 1 0 1 0 3 1 2	0 1 0 1 1 1 2 2
11 12 13 14 15 16 17 18 19	2 1 2 0 1 0 1 3 1	2 1 1 2 0 1 0 1 3 1	2 1 1 2 0 1 0 1 3 1	2 1 1 0 1 0 1 3	2 1 1 2 0 1 0 1 3 1	3 0 1 2 0 1 0 1 3 1	0 1 2 0 1 0 1	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 0	0 1 3 3	2013210223	2 2 1 0 1 2 3	1021210123	1 0 2 1 1 1 1 1 2 2	1 0 2 1 1 1 1 1 1 1 1 3 2	102	1 0 2 1 1 1 1 1 2 1	1 0 2 1 1 1 1 1	1 1 1 1 2 1	0 0 2 0 1 1 1 1 2 1	1 0 2 0 1 1 1 2 1 1	10201111211	0 2 0 1 0 1 2 1 1	0 1 1 1 0 1 2 1
21 22 23 24 25 26 27 28 29	1 1 1 1 1 0 .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 0 1 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 0 1 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	0 1 2	1 1 0 1 1 0	1 1 2 1 1 0 0 0	2 1 2 1 1 1 0 0	21212100	2 1 2 1 1 0 0	2 1 2 1 2 1 1 0	1 1 1 0 0	1 1 1 1 0 0	1 1 2 1 1 0 0 0 0	1 1 0 0 0	1 1 1 0 0 0 0	1 1 1 0 0 0 0	1 1 1 0 0 0	1 1 1 1 1 1 0 0
MEAN	1	1	1	1	1	•	,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ".... INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O.O. PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAR STATION - WC NO 22086 CHEAPSIDE RD.3 KM S OF HWY 3. NANTICOKE 24 MEAN HOUR 1 2 3 4 5 6 7 8 9 10 32002-2 1 2 2 12 13 14 15 16 17 18 19 20 0 2 3 0 2 2 22 23 24 25 26 27 28 29 30 DATA INVALID DATA INVALID DATA INVALID 0 0 0 0 C U 

PERCENTAGE OF DATA VALID - 86.0

MEAN

PERCENTAGE OF DATA INVALID - 14.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	٠ \$	ULPH	UR D10	XIDE							L	NITS	- 0.0	01 PA	RTS/MI	LLIO	4						
	STA	TION -	WC	NO	22086	(	CHEAPSI	0E	RD.3	KM S	OF HWY	3.	NANT I	COKE		NON	TH - A	PR	80						
HOUR	t	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9	0000000000	00-000000	101000001	00000000	00000000	000000000	002000000	0011000003	1011001011	00110013	00001	1010001010	1 1 0 0 0 2 1 1 0	1110000000	1 1 0 0 0 1 0 2 0	1 1 0 0 0 0 0 0	0 0 0 2 1	00000000	1 1 0 0 0 0 0 0 0 0 0 0 0	1000000000	1000000000	1000000000	0000000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 1 1 2	000000-0-	0 0 0 0 2 0 0 1 1 1	0 0 0 0 3 0 0 1 1 0	0 1 0 0 0 1 0	04000000-0	0 1 0 0 0 0 0	0100105011	0 1 0 0 1 1 2 1 2 0	0 0 0 0 0 3 1 4 0	00004130	0200211250	1 3 0 0 2 1 1 2 7 0	500114590	00004270	1000008120	0000106130	0000103120	20000002110	000000000	000000000	000000000	0 0 0 0 1 1 1 0	0 0 0 0 1 1 0	00010021
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	0000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 1	0010000001	0001	0011000000	0 1 1 0 0 0 1	0 1 1 0 0 0 1	2 0 0 0 0 0 0 1	1 0 0 1 0 0 0 1	1110900000	10 1 1 0 4 0 0 0 0 1	6 1 0 8 2 0 0	3 1 0 6 1 0	1 0 0 0 0	0 2 0 0 1 0 0 0 1 0	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	0100000000	0-0000000	00000000	1 0 0 0 0 0
MEAN		0	0	٥	0	0	0	1	1	1	1	1	1	2	1.	1	1	1	0	0	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION -	wc	NO 2	2086	C	HEAPS	IDE	RD.3	KM S	OF HWY	3.	HANT	COKE		MON	тн - :	447	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0000000000	000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	1 0 0 0 0 0 0	3 1 0 1 1	10001100004	0111100001	0 1 1 1 0 0 0 0 1	1210000004	1 1 0 0 1 0 0 0 1 2	1 1 0 0 0 0 1	10001	000010	0000100000	000000000	0000000000	0000000000	0000000000	000000000	000000000
11 12 13 14 15 16 17 18 19	100000	0010001000	000000000	0000000000	0000000	000000000	0000001000	0000001100	0 0 0 0 0 1 0 1 0 0	1000001000	0 0 0 1 0 1	0100010001	0 0 0 1 0 1	0100100100	0 1 0 0 0 0 0 1 7 0	000000,30	0000100010	0000100000	0000000000	000000000	000000000	00-0000000	0000000000	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 1 1	0 0 0 1 1 0 0 1 1	0 0 0 1 0 0 1 0	000011	0 1 0 1 1 0 0 1 1	0 1 1 1 1 0 0 1 1	0 1 0 1 0 1 1 2 •	0 1 0 1 0 1 1 1	1 1 0 1 0 2 2 2	1 1 0 0 1 0 1 1 2	1 1 0 0 0 0 1 1 1 3	0 1 1 0 0 0 1 1 2	0 3 2 1 0 0 0 1 1 2	1 1 0 0 0 1 1 2	0000	1 1 0 0 0 0 2 0 1	1 3 1 0 1 0 2 0 1	6 1 0 1 0 2 0 0	300000000000000000000000000000000000000	1 3 1 2 0 0 0 2 0 0	0102000200	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 1 1 1 1
MEAN	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	. O 1	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.5 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	P	OLLUTAN	T - 5	ULPH	UR DIO	XIDE							l.	INITS	- 0.	01 PA	RTS/MI	ILLIO	N						
	\$	TATION	- MC	NQ	22086		CHEAPSI	DE	RO.3	KM S	OF HWY	3.	NANT	COKE		MON	тн - ,	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000	00000000	000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000-0000	0000000000	0 0 1 0 0 0 0 0	001000	3000-00000	0000000000	0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 1 0 0 0 0	0 1 0 0 0 0 0 0	0 0 0 0 0	00000-0000	00000000	000001000	000000000	000000000	0000-00000	0000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	0 0 1 0 0 1 0	0 0 0 1 0 0	000-000000	000100000	000-0-0000	0 0 0 1 0 2 0 0	0011011200	0 0 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 6 0 0 2 5 0	0 0 2 6 1 0 2 5	0142101310	0 1 4 1 0 1 5 1 0	5 1 0 0 2 2 0	0 0 2 1 0 1 0 1 3 0	200010	0 0 0 0 0 0 0	2 0 0 1 1 0 0 0	0 1 2 0 0 1 3 0 0 0	00-0000000	0010001000	0010000000	0 0 1 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0	0 0 1 1 0 0 0
21 22 23 24 25 26 27 28 29	0000	0010000	00010000	0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0	000-00000	0	0001040000	0 2 1 1 1 0 0	0 1 1 3 8 0 0	0 2 1 2 2 7 0 0 0	0314280.10	1 4 1 4 2 7 0 . 3 0	1 3 1 6 0	3 1 1 2 0 0 1 0	1 1 1 1 3 0 0 1 0	1 1 1 1 1 0 0 0 1 0	00	0 0 1 1 1 0 0 0 0 0	0011000000	001100000	000100000	0000000000	0000000000	0 1 1 1 2 0 0 0 0
MEAN	٥	o o	0	0	0	٥	0	0	0	1	1	1	1		1	- 1	1	٥	0	0	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

#### UNITS - 0.01 PARTS/MILLION

	STA	TION	. WC	NO	22086	į	CHEAPS	DE	RD.3	KM Ş	OF HWY	3.	NANTI	COKE		MONT	тн - ,	JUL	80	•					
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 1 0 0 0 0 1 0 0	0000000000	0-00000-00	010000000000000000000000000000000000000	0 1 0 0 0 0 0 0 0	0100000000	0000100100	1000100000	100010000	1 0 1 0 2 0 0 3	5 0 1	1002002012	000000000000000000000000000000000000000	1012005002	0 0 1 1 0 0 2 0 0 1	001004	0011001003	6 0 0 0 0 3	0 0 0 0 4 1 0 0 0 1	0000011000	00000-000	0001000000	0000000000	000000000000000000000000000000000000000	0000
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000300001	0000300101	0 0 0 1 0 0 1	000000000000000000000000000000000000000	3 0 .	000-40:520	0 1 0 1 6 0 0 8 1 0	0201300130	0.00000000	0101000010	000-100000	000000000	0 1 2 1 1 0 0 0 0 0 0	010010000	000000000	000000000	000000000	00000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	1000000000	0-00000000	030000000	000000000	000000000	000000000	000000000000000000000000000000000000000	000000000	1000000000	1000010000	0 0 1 0 1 0	0200102010	0 0 0 0 1 1 0 0 0 0	0100001000	0000000000	000000010	0000000+00	0000000110	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	000000000	100000000000000000000000000000000000000	000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0.3

PERCENTAGE OF DATA VALIO - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	UTANT	· \$	ULPHU	R DIOX	10€						u	NITS	- 0.0	DI PAR	RTS/MI	LLIOI	N						
	STA	TION -	WC	NO 2	2086	c	HEAPSIDE	RD.3	KM S	OF HW	Y 3.	HANT	COKE		MONT	TH - A	UG	80						
HOUR DAY	1	2	3	4	5	6	7 6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	000000001	000000000	0000000000	0000100000	0 0 0	2 2	0000	0 1 3 0 0	211000	0 0 0 1 1 0 0 0	0 2 0 0 2 1 1 1 0 0	0000211000	0 0 0 1 1 0 0	0000-0000	0000-00000	0000000000	0000100000	0000000000	0000000000	0000110000	0 0 0 0 1 1 0 0 0 0	0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	0000000000	000000000	0000000000	0000000000	100000000000000000000000000000000000000	000000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000000000000000000000000000000000000000	0000030	000000000000000000000000000000000000000	100000000000000000000000000000000000000	1 0 0 0 2 0 2	00000111	0 0 0 0 0 1 1	000000000	0000000000	0000000000	000000000	000000000	000000000	0000000000	0000000000	000000100
21 22 23 24 25 26 27 28 29	0000000000	000000000	000100000	0011000000	0110000000	0110000000	0 0		1 1	0000000	000000000000000000000000000000000000000	3000	2200100000	000000	000000000000000000000000000000000000000	00000000	1100000000	00000000	0-00000000	0000000000	000000000	0000000000	,	000000000000000000000000000000000000000
31	0	0	0	٥	0	0	0 (	0 0		٥	0	0	0	0	0	0	0	0	0	0	′ 0	0	0	0
MEAN	0	ο.	٥	0	0	0	0 (	0 0		0	0	0	1	0	0	0	0	o	0	0	٥	0	0	0.2

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

Ь	PO	LLUTAN	r - s	ULPH	UR DI	XIDE	L							UNITS	- o.	31 PA	RTS.E	TELEO	N						
	ST	ATION	MC	NO	22086		CHEAPS	SIDE	RD.3	KM S	OF HAY	3.		COKE			7H - :		90						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	0000000000	000000000	0000000000	0 1 0 0 0 0 0 0 0	0000000000	0000000010	000000110	000000000000000000000000000000000000000	0-000000-0	0000000000	0001000200	0001000200	0000000000	000-000-00	0000000000	0000000000	000000000	00000000	00000000	00000000	00000000	000000000
11 12 13 14 15 16	0	0	0	0	0	0	0	0	0	0 0 0	0	•	DATA I	O O O O INVALII	3 0	0	000	0000	0000	0	0 0 0	0 0 0	0 0 0	0	0
18 19 20	0	0 1 1	0 1	D 1	0	0 0	0 0 2	0 0 3	1 2 0 3	15 0 0 3	0 0 2	0 0 2	0 0	0 0 1	0 0 1	0000	0000	0000	0 2 0 0	0 20	0	000	0000	0	0 0
21 22 23 24 25 26 27 28 29 30	0000000000	0000000000	0000000001	000000000	000000001	100000001	100000000000000000000000000000000000000	100000000	0001000012	0 0 0 1 0 0 0 1 3	100000000000000000000000000000000000000	1000000063	0000100033	0 1 0 0 0 1 3	1 2 0 0 0 2 0 0 0 1 3	0000000	100000000000000000000000000000000000000	0100000001	0 0 0 0 0 0 0 0 1	0100000001	00001	000000001	0 2 1 0 0 0 0 0 0 1	0 1 1 0 0 0 0 0 0 1	0 0 0 0 0 0 0 1 2
	Ü	Ü	U	U	0	0	0	٥	0	1	o	0	0	0	0	0	O	0	0	0	0	Ų	U	Ü	U.3

PERCENTAGE OF DATA VALID - 88.9 PERCENTAGE OF DATA INVALID - 11.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 5	ULPHI	010	XIDE	i						Ų	NITS	- 0.	01 PAI	RTS/M	11110	N.						
	STA	TION -	WC	NO 2	2086		CHEAPS	IDE	RD.3	KM S	OF HWY	3.	NANT	COKE		MON	тн - (	ост	80						
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	FEAN
1 2 3 4 5 6 7 8	140000000000000000000000000000000000000	100000000000000000000000000000000000000	1000003000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	200000000000000000000000000000000000000	2000000000	300000000000000000000000000000000000000	300000000000000000000000000000000000000	3000000000	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3010000101	3 0 1 0 0 0 0 0 0 1	2050005010	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	103000000	1040000011	1000000011	000000001	000000000	1010000000	1000000000	-000000000	3000000000	2010000
11 12 13 14 15 16 17 18 19	1000000100	00000	000000000	0000000000	000000000	000000-000	000000000000000000000000000000000000000	0000103000	00000000000	000000000	0000000000	0000000100	00000000	000001000	0000001000	000000-000	0000000000	000000-000	00000000000	0000000000	0000000000	0000000000	0000001000	000000000000000000000000000000000000000	000000-00
30	0000000000	00000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000000	000000000	000000000000000000000000000000000000000	0000100000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0	00000000	000100001	000000000	0000000000	00000000000	0 0000000000	0 0000000000
	0	- '	0	0	0	0	0	0	0	0	0	0	ن o	0	0	0	0	0	0	0	0	0	0	ت 0	5 0.2
																			-	•	•		•	u	0.2

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, WILLION

	FUL	LO I MIL		OCC	011 010									=											
	STA	TION	. wc	NO.	22086	(	HEAPS	IDE	RD.3	KM S	OF HW	Y 3.	NANT	COKE		MON	TH - 1	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
- 1	0	0	0	0	0	٥	0	0	0	0	0	٥	٥	0	C	0	٥	٥	0	0	0	00	0	0	0
2	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		2	2	ř	š
3	0	0	0	0	0	0	t	2	2	2	4	4	3	3		2	2	3	3	2	2	ő	ó	à	7
4	3	0 2 0	0	0	2	5	1	1	1		0	0		0	C	3	ō	0	0	0	0	0	ŏ	ő	ò
5	0		0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	٥	٥	0	0	ĭ	ĭ	7
6	0	0	0		1	1	1	1	,	0	0		1	1	1	- 1	1	0		ò	0	o	ò	ó	i
7	1	3	1	1	1	0	0	1	•	1	1	2	2	2	1	- 1	45	ú	0	o	0	Ü	o	ŏ	ò
8	0	0	٥	0	0	٥	0	0	0 5	0	0	1	0	0	٥	0			٥	0	٥	o	o	ŏ	ĭ
9	0	1	1	1	1	2	4	7	5	2	1	O	0	0	0	0	٥	0	ö	0	0	ő	ŏ	ŏ	ò
10	0	0	0	0	0	0	0	0	0	0	0	0	٥	٥	0	a	U	C	U	U	U	U	•	•	-
1.1.	0	0	0	٥	0	٥	0	0	o	0	0	0	٥	0	0	0	٥	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	o	3	0	ù	0	0	C	0	2	0	0	2	7	2
13	0	0	ō	1	2	3	2	7		3	3	3		2	й 3 0	2	2	2	2		2	0	ő	ò	6
14	1	1	0	1	1	0	0	0	0	0	0	0	0			0	C	0	0	0	0	0	ä	ŏ	ŏ
15	0	0	1	1	0	0	0	0	- 1	0	0	0	0	0	0	0	G	0	0	0	0		ő	ŏ	õ
16	0	0	0	0	0	0	0	0	0	1	3	2	1	1	1	٥	٥	0	0	0	0	0	ŏ	0	ŏ
17	0	0	0	0	0	1	0	0	1	1.	3.1	1	•	2	1	1	0	0	0	0	0	0	ŏ	ŏ	ŏ
18	1	1	2	1	0	0	00000	0	0	0	0	1	1	0	0	0	C	٥	0	0	0	1	Ö	ŏ	ŏ
18	0	0	0	0	0	0	0	0	0		2	1	٥	0	0	0	Ö	٥	٥	0	1	6	8	2	2
20	0	0	0	0	0	1	0	0	1	2	5	7	2	4	3	3	Ĭ.	7	1	1	1	0	•	-	
21	4	4	3	3	4	3	2 0 3	2	0	0	0	٥	0	0	0	0	٥	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1.	0	0	0	0	0.	2	ž
23	0	0	2	2	1	2	3	8	5	3	4	3	4	4	2	1	- 1	2	2	3	2	2	ő	â	ñ
24	1	1	1	0	0	0	0	0		0	、 ο	1	1	2	1	1	ò	ò	0	00	0	ő	ĭ	ĭ	ŏ
25	0	0	0	0			0	- 1	2	2	1	- 1	1	1	0	٥	·	·	·	ŏ	ž	ŏ	ò	ò	ĭ
26	0	0	0	0	0	0	1	1	1	2	1	3	5	3	1	- 3		ò		Ÿ	Ÿ	ĭ	ŏ	ŏ	1
24 25 26 27 28 29	2	3	2	2	,	1	1	1	1	1	1	٥	0	0	0	0		0			,	5	ĭ	ĭ	•
28	0	0	0	0	•	1	1	1	••••		1	0	0	0	0	Ų	- 1	0	ò		7	õ	ò	1	o
29	1	1	0	0	0	0	0	0	0	0	0	0	0		0	ò	ò	ő	5		1	2	2	1	1
30	0	0	0	0	0	0	0	0	0	0	0	0	U	1	6	U	U		•	7.00		-	- 5		
MEAN	0	ŧ	0	0	1	1	1	1	1	1	1	1	1	1	1	-7	U	0	1	0	0	1	1	0	0.6

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTA	nT -	SULPH	UR DI	OXIDE								UNITS	- o	D' PA	RTS/MI	10111	4						
	ST	ATION	- wc	NO	22086		CHEAP	SIDE	RD.3	KM S	OF HW	3.	NANT	ICOKE		MON	TH - C	EC	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	t 2	13	14	15	16	17	18	19	20	21	22	23	24 M	IEAN
1 2 3 4 5 6 7 8 9	0 0 0 1	0 0 1 0 1 1 0 0 1	0 1 0 0 1	0 1 0 0 1 1 0 0 1	0 1 0 1 1 1 0 0 0	0 1 0 1 1 2 1 0 0 0	0103121000	4 1 1 1 0 0	1 3 1 1 1 0 0	1 1 2 0 1 0 0	1 1 0 0 2 0 1 0 0	0 1 1 0 3 2 1 2 0 0	1 1 0 1 1 2 0 0	1 1 0 0 0 1 1 1 0 1	1 0 0 0 2 0 1 0 1	1 0 0 0 2 0 0 0 0	20000	10000	0 0 0 0 0 0	0000000000	0 0 0 0 1 0 0 0 0	0000110000	0 1 0 1 1 0 0 0 0	0 1 0 1 0 0 1 0	0 1 0 1 1 1 0 0 0 0
11 12 13 14 15 16 17 18 19	0 1 0 0 0 2 0 1 0 0	0 1 0 0 0 2 0 1 0 0	0 2 0 0 2 0 1 0 0	0 2 0 0 0 1 0 1 0 0	0 0 0 1 0 0	0100020100	0 1 0 0 0 2 0 1 0 0	0100020100	0100020000	0000220000	0 1 2 1 0 0 0	0400321000	0 1 0 0 2 1 6 0 0 0	11000	0000110000	0100010100	1103000000	1100103000	2103104000	14000	20000	2000102000	20003301000	1 0 0 0 2 0 1 0 0	1 1 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 5 1 0 0 1 2	0005100012	0 1 5 1	0 2 4 1 1 1 1 1 2	0 2 4 1 1 1 1 1 3	0 1 4 1 1 1 1 2	0 1 4 0 1 1 1 1 2	00021114411		00021	0 0 3 0 0 3 5	0 1 3 0 0 0 3 4	0 0 2 0 0 2 2 2 2 DATA	0 0 2 0 0 2 1	0 0 0 3 1 10 - 2	0 0 1 0 0 3 1	000000000000000000000000000000000000000	0 1 1 0 0 1 1 1 1 2	0 2 1 0 0 0 1 2 2 2	0 3 1 0 0 1 2 2 2	0 4 1 0 0 0 1 2 3	0 6 1 0 0 1 2	0 5 1 0 0 1 2	0 6 1 0 0 1 2 2	0 1 2 0 0 0 2 2 2
31	3	3	2	2	2	3	3	0	3	3	3	1	1	1	,	1	1	1	0	0	o	0	1	1	2
MEAN	1	1	1	1	1	,	1	1	1	1	,	t	1	4	1	1	0	t	1	1	- 1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 92.7 PERCENTAGE OF DATA INVAL:D - 7.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

STATION - WC NO 22086 CHEAPSIDE RD.3 KM S OF HWY 3. NANTICOKE

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLICN

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAX!MUM	MAXIMUM READING
JAN	31	0.6	2	7
FEB	29	1.0	2	4
MAR	26	0.9	2	, ,
APR	30	0.5	2	10
MAY	31	0.4	1	10
JUN	30	0.5	2	26
JUL	31	• 0.3	5	9
AUG	31	0.2	,£	5
SEP	27	0.3	2	15
OCT	31	0.2	2	. 11
NOV	30	0.6	2	8
DEC	28	0.8	2	14
YEAR	355	0.5	2	26

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

monthly of	NOOF THEOD	THE PLANE	1001101 101	1900						
POLLUTANT	- SULPHUR I	DIOXIDE				UNITS - 0.01	PARTS/MILL	.ION		
STATION .	WC NO 220	086 СН	EAPSIDE RD.	3 KM S OF	Hwy 3. N	ANT I COKE				
MONTE	H 00 TO 05	06 TO 10	11 70 15	16 TO 20	21 TO 25	26 10 39 40	TO 49 50	aover '	TOTAL	
JAN	739	2	0	0	0	0	0	0	741	
FEB	695	0	0	0	o	0	0	0	695	
MAR	639	1	0	0	0	0	0	0	640	
APR	709	9	0	0	0	. 0	0	o	718	
MAY	737	3	0	0	٠. ٥	0	0	o	740	
JUN	706	7	1	g	0	1	0	o	715	
JUL	738	3	0	O	0	o	0	٥	741	
AUG	742	0	0	0	0	o	0	0	742	
SEP	638	1	1	0	٥	0	0	0	640	
OCT	741	1	t	0	٥	0	0	0	743	
NOV	708	7	0	0	0	0	0	٥	715	
DEC	683	5	2	0	0	0	0	0	690	
YEAR	8475	39	5	0	0	1	0	0	8520	
FREQUENCY	DISTRIBUTE PERCENT	ON BY PER	CENTILES		CONCE	NTRATIONS				
	OF DATA VALID	NIM	10	FREQU 30 50	ENCY DIST			99	MAX	ARITH MEAN
	97.0	0	0.0 0	.0 0.0	0.2	1.0 1.	8 2.8	3.8	26	0.5

UNITS - PARIS/BILLION POLLUTANT - SULPHUR DIOXICE - PPB WONTH - JAN 80 STATION - NMP NO 22901 LONG PT PROV PK 10CM S HAYSU 20 21 23 24 MEAN 17 18 19 115 10 12 13 14 15 HOUR 0 a 0 0122212086 0100010111 0-0000000-0 0200000110 1 2 3 4 5 6 7 8 9 10 0100000111 0 0 5 0 0 1 0 0 0 3 1 00-000-1 00010022 00000 00000 001 271046 2 7-100. 50026 0 3 000 3 2 2 2 1 2 0 40 48032 50:3351 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 0--01030 0100001 000001 03-0--0 1333252 008-5-20 00315000. 0011201 6 5 0 5 12 5 2221401 2161201 1091422 45149501 4 1 1 6 4 1 0 2 2 1 1 5 4 1 55128410 9312 INVALID INVALID INVALID INVALID INVALID INVALID O O DATA DATA DATA DATA OO O . . . . . . . . . . . . . . . . 010.0 00000 03000 010 00.00 21000 0-000 41100 00000 00000 . . . 00 1000 0000 0000 0000 0000 0000 1000 0000 o 0 O 0 U C 0 0 0 0 0 0 0 0 0 0 0 0 0 ٥ 0 0 0 n 31 1.3 0 ٥ 0 2 2 MEAN

PERCENTAGE OF DATA VALID - 67.3

PERCENTAGE OF DATA INVALID - 25.0

PERCENTAGE OF DATA UNAVAILABLE - 7.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE - PPB													NITS	- PAF	ITS/B	LLION	E							
	STA	TION	- NMP	NO 2	2901		ONG P	T PROV	PK	100M	S HWY	159				MON	TH • F	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000130	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000140	000001030	00000000000		0 0 0 0 0 1 2 0	000000130	000000010	000000010	0000000000	0000000000	0000000000	0000000000	0000010000	0 0 0 0 0 0 0	0000060000		0000080100	0000024	0 0 0 1 21 0 0	0 0 0 1 6 1 3 0 2	0000151402	0 0 0 0 0 0 1 1 0
11 12 13 14 15 16 17	0 1 2 7	2 1 2 4 0 7 1 9 42 7	3 1 2 1 0 6 1 14 40 6	4 1 2 2 2 3 0 16 43 5	4 1 2 1 3 4 0 13 37	4 1 2 5 2 3 0 9 37 20	6 7 0 7	1 0 1 4 4 8 0 7 32	0 0 1 5 3 9 0 8 35 19	0 2 5 4 14 0 14 33	0 0 5 13 11 14 29	0 0 0 4 11 1 11 16	0 0 0	0 1 1 4 2 13 22 12	0 0 1 6 2 12 28 6	0 1 0 11 4 2 13	0 2 0 6 8 4 11 14 3	0 1 0 3 12 4 8	1 3 13 7	0 1 1 9 9 3 12 8 2	0 1 1 15 8 2 15 7	1232153952	12 12 14 19 63	3 8 2 11 3 4 38 11	1 2 2 6 7 2 13 24
21 22 23 24 25 26 27 28 29	4 11 0 4 1 8 12	100416923	300203906	5 12 0 3 0 2 10 0	6 12 0 3 0 1 10 0 8	5 11 0 3 1 1 7 0 8		2 9 1 5 1 1 10 6	2 8 1 3 1 1 13 0 3	2 9 1 2 0 1 13 10	3 8 0 3 0 3 11 12	80303850	8 8 0 3 8 2 1 4	8 8 0 2 5 5 0 2 0	10 5 2 1 - 6 0 1 1	6 2 2 1 5 0 1 2	4 3 1 2 15 1 0	4 2 2 0 8 4 0 1 5		6 5 2 1 2 2 0 1	5 2 2 2 0 3 5	53233302.	15 1 4 2 3 2 1 3 0	20 0 5 2 4 10 1	6 7 1 2 3 3 5 2 3
MEAN	3	4	4	4	4	4	11	4	4	5	5	3	3	3	3	3	3	2	5	3	3	3	3	5	3.6

PERCENTAGE OF DATA VALID - 90.7

PERCENTAGE OF DATA INVALID . 0.0

PERCENTAGE OF DATA UNAVAILABLE - 9.3

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY WEAR IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

								•						04112	- 96	KI2/B	11110	N							
	STA	TION	- NM	P NO	22901		LONG	PT PRO	OV PK	100M	S HW	Y59				MON	тн - і	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 13 12 9 0 11 16 5 8	0 12 7 16 10 2 11 20 5	0 10 12 46 7 4 11 24 3	0 11 13 50 8 3 9 19 2	0 10 14 45 10 5 9 18 2	0 8 10 43 15 6 7 21 3	37 18 6 6 31 7	1 6 8 29 15 7 7 35 6	4 8 8	5 14 5 19 12 3 6 30 5	6 29 4 19 10 3 8 26 7	10 30 5 19 6 5 5 21 5	6 27 15 8 9 6 9	6 27 - 15 12 4 9 11 8 7	1 9 3 1 1 3 6 9 3 8 8	2 5 4 14 12 7 10 4 6 9	0 2 8 13 11 10 10 20 6 8	2 6 11 9 10 11 6	1 8 6 12 9 4 5	5 0 1 7 3 12 10 3 3	6	8 5 7 9 0 11 20 2	12 1 7 8 0 11 49 3	13 2 14 9 0 11 16 4 8	4 10 7 21 9 7 11 15 5
11 12 13 14 15 16 17 18 19	3053001239	3 0 2 3 0 0 3 2 3 1 3	3 0 3 2 0 0 4 0 3 17	3 0 4 6 0 3 0 2	5 0 3 5 0 3 10 0 2	6 0 2 6 0 3 5 0 3 15	5	2 0 3 4 0 1 1 5 0 6 1 5	0 2 3 0 1 1 6 0 9	1021001001001001001001001001001001001001	3 0 1 1 3 0 16 9	7 0 1 0 0 19 2 0 11 -	6 3 2 0 0 1 0 1 3 7	2 3 3 0 9 0 4 0 5	1 2 3 2 0 0 1 2 0 2 0 4	1050003	5031062102	3 4 0 0 3 3 2 1 1	*****	0 17 3 0 1 3 1 2 5	0 14 4 0 0 4 1 2 7 2	0051123392	0552031303	0041021284	3 3 2 0 6 3 1 5 8
21 22 23 24 25 26 27 28 29 30	3 0 0 4 8 0 4 4 5 1	3004503653	3 0 3 9 2 0 6 13 5 3	2029205054	3 0 0 8 2 2 5 1 1 4 3	3 0 0 7 2 2 3 10 3 6	4	4 0 0 6 14 0 2 15 4 9	1 0 6 5 0 2 15 4	1 0 0 6 6 0 0 10 4 13	90.1033	3 0 7 5 0 4 13	30092058-6	20090071005	0006006502	0025005502	0023003601	9001	3	0034023623	0 3 5 0 2 3 5 2 7	0 2 7 0 2 3 4 0 5	0 1 4 6 0 2 3 2	0046034524	2 0 1 6 3 1 4 8 2 5
31 MEAN	3 4	3 5	7	5 7	7	7	14	2 7	1 5	1 . 6	2 7	2 6	5 6	5 7	4 5	4	3 4	3 4	6	3 4	1 3	1	3 5	3	3 5.4

PERCENTAGE OF DATA VALID - 91.1 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 8.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

"-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- :	SULPH	UR DIC	DXIDE	- PP6	ı						INITS	- PAS	TS/B	LLIO	N							
	STA	TION -	NMI	P NO	22901	į,	ONG P	T PROV	PK	100M	S HW	Y59				MONT	н - ,	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	2 1 4 6 2 0 1 2 0 0	1 2 4 6 2 1 1 3 0	1 1 4 5 1 2 1 4 0 0	2 1 6 3 1 2 1 3 1 0	4 1 6 2 1 5 1 3 0 0	4 0 8 2 2 4 5 3 0 3	******	4 0 8 1 3 1 5 0 0	5081207212	3 0 10 1 1 0 5 1 2 1	3 0 10 0 1 0 5 2 1 1	5 0 11 0 1 0 5 2	2 1 11 0 0 3 1 3	260005041	3 4 0 0 0 5 0 4 0	4 4 0 0 0 0 5 1 3 0	3 5 0 1 0 3 0 2 1	0 3 5 1 1 0 2 0 2 1		0222012100	332002110	03620020	0593011000	0 4 8 4 0 1 1 0 0	2 2 6 2 1 1 3 1 1 1
11 12 13 14 15 16 17 18 19	0123094035	0 2 1 3 1 7 5 0 3 5	0203295006	0 4 0 5 2 0 4 0 0 5	0 11 1 4 1 11 4 1 0	0 10 1 5 1 9 2 2 4 0		0 5 1 3 14 0 5	0 5 1 0 2 5 0 3 2 0	1520250230	0 5 2 0 2 3 0 1 7 0	520200160	52 . 700040	120200040	1 1 0 0 2 0 1 1 5 0	1 0 4 4 0 5 1	000021110130	0 1 1 0 2 9 1 2 0	******	0 0 0 1 0 1 9 1 1 0	0 0 0 1 0 2 3 1 2 0	1021025140	1 1 4 0 3 2 1 3 7 0	1 4 0 5 4 1 3 7	3 1 2 2 4 3 1
21 22 23 24 25 26 27 28 29	4 3 0 0 2 0 4 1	4 2 0 0 4 1 5 1 1 4	4 1 0 1 2 1 6 1 1 5	5 1 0 1 4 1 4 2 1 4	10220622	200122522		3 1 5 3 0 2 6 4 3	3 1 8 1 2 0 2 8 3 5 3	2 4 19 9 0 3 8 2 4 2	2 5 22 21 0 4 4 3 3	2 10 2 0 4 7 3 1 2	1 6 3 0 4 3 3 1 3	1 3 4 5 0 4 3 4 0 4	1 6 3 3 0 6 3 4 1 4	17222714	1 4 2 5 1 4 1 3	3 5 1 0 1 5 2 3 3 2		5 5 0 0 1 1 1 2 4 0	5 3 0 0 1 1 1 2 3 0	4 2 0 5 0 1 1 1 3	3 1 0 1 0 1 3 1 4 1	2001032142	3 4 3 1 3 4 2 2 3
MEAN	2	2	2	2	3	3 .		3	3	3	4	3	2	2	2	2	2	, .		•		2	2	2	2 2

PERCENTAGE OF DATA VALID - 90.4

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 9.6

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

		PULL		- 30	M.F. CO.	04 0104								).55		3 77.13										
		STAT	ION -	NMP	NQ .	22901	LQ	NG PT	PROV	PK	100M	S HWY	59				MONT	H - N	MAY	80						
	HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24	MEAN
	1 2 3 4 5 6 7	600310400	000000	000900500	00090070	00080050	0 0 7 0 4		0 0 1 3 0 1 2 0	0 1 1 3 0 1 1 0	0 1 1 2 0	0 0 2 2 0 1 0 -	3 1 0 0 .	0 4 3 1 0 4	3 1 0 0 3	0 0 1 3 1 1 0 4	0 0 1 3 1 1 0 3	0 6 1 3 1 1 0 3	0 0 0 5 0 1 0 1		0 0 0 2 . 1 0 0	0 1 1 0 - 1 0 0	0 0 1 0 0	0002-000	000-0-00	0 1 4 0 1 2 1
	10	0	0	3	3	1	0	•	0	2	3	4	6	10	26 26	24	14	8	3	:	1	1	3	ò	0	5
	11 12 13 14 15 16 17 18 19	00-300200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	3 1 0 0 0 0 0 0	3 2 3 0 1 1 0 0 0 1	3 2 4 1 0 1 0 0 0 1		6 3 4 0 4 0 0 3 1 0	6350300500	9540210503	8 3 1 0 3 1 1 5 1 3	8 3 1 0 2	6 3 2 0 2 6 1 4 1 .	4230251313	4 1 0 2 3 0 3 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.0140110	00 40 1 30 1 00		00 40 1 1 0 0 0 0	00 40 - 10000	00 400 100 11	00.0010011	00.0010005	3 1 2 0 1 2 0 2 0 1
•	21 22 23 24 25 26 27 28 29 30	6 0 0 1 1 0 4 1 7 0 0	13 0 0 2 1 0 3 2 4 0 0	6 0 1 2 1 1 2 1 4 3 3 1	6 0 0 2 1 3 2 0 4 3	5 0 1 1 1 5 1 0 4 3	7 0 1 0 1 5 1 0 5 4 2		6 2 0 2 1 7 1 2 7 4	6 3 4 2 1 8 1 4 7 4	7 4 9 2 12 4 1 1 7 5	7 7 7 1 5 3 11 12 6 3	4 5 5 0 14 4 14 10 5 2	3 1 2 6 8 10 6	4 3 0 0 8 2 33 8 1	4 3 3 0 0 8 1 36	4 4 3 0 7 0 16 5 0	4 4 3 0 1 2 0 9 1 1	3 2 3 0 1 1 0 2 4 0 0		1 0 1 0 0 0 0 8 1 0 0	1 0 2 0 0 0 0 0 9 2	0040000000	0060000500	0041001800	4 2 3 1 2 3 2 8 4 2
	MEAN	1	1	1	2	2	2	1	2	3	4	3	4	3	4	4	3	2	1	1	1	•	1		, 1	2.0

PERCENTAGE OF DATA VALID - 90.3 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 9.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTA	INT .	SULPH	UR DI	OXIDE	- PP	8						UNITS	- PA	RTS/B	ILLIO	N							
	ST	ATION	4 - N	AP NO	22901	ı	LONG	PT PRO	V PK	100M	S HW	Y59				MON	TH -	JUN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9.	10	11	12	13	14	15	. 16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 1 4 0	00000	000000	0 0 0 0 1 1	0 0 0 1 1	0000121	3 0	0	00000	0000220	0.00220		DATA	0 1 1 0 5 1 0 [NVAL]	D -		0 0	1 0 0		0 1 2 0 0		9	100	1 0 0 2 8 0	0 0 0 1 3 1
11 12 13 14 15 16 17 18 19	0 0 0 1 0	001200	0 0 1 1 0 0	0 1 0 0 0 0 0	0 1 0 0 0 0	0 1 1 0 0 0	0 3	0 7 1 0 0	0 6 1 0 0 0 3	0 8 1 0 0 3		- 04	TA U	INVALLA INVALLA O 3	BLE	-	0 1 2 0 0 .	0 1 1 0 0 0	0	0000	001000			000000	0 2 1 0 0
21 22 23 24 25 26 27 28 29 30	0 0 7 0 0 0	0006000610	0005000410	0002000400	2000200	0 0 0 1 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0900000000	0600000100	0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0600000	04000	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 5 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 2 0 0 0 1 1 0 0 0	190000000000000000000000000000000000000	0	300.000	0 2 - 1 0 0 1 5 1 0	0 0 0 0 0 3 1 0	5 0 0 0 1 0 1	7000200	3 1 0 0 0 2 0 0
MEAN	1	1	1	0	0	0	2	1	1	1	1	1	1	1	1	1	2	1	0	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 66.5 PERCENTAGE OF DATA INVALID - 11.3

PERCENTAGE OF DATA UNAVAILABLE - 22.2

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

	S1	ATION	- NM	IP NO	22901	r	LONG	PT P	ROV PI	100	M S H	WY59				11.0	HTH -	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
4	1	0	2	1	1	1		2	3	3	3	4	3	2	i	0	0	0		1		ï	1	2	2
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MEAN	1	1	1	1	1	,		1	1	1	1	1	1	,	1	0	0	C	0	0	0	1	71	1	0.7

PERCENTAGE OF DATA VALID - 81.6 PERCENTAGE OF DATA INVALID - 10.2

PERCENTAGE OF DATA UNAVAILABLE . 8.2

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	POLLUTANT - SULPHUR DIOXIDE - PP8 STATION - NMP NO 22901 LONG PT PROV PK 100M S HWY59													- PA	RTS/B	ILLION	•							
	ST	ATION -	NMP	NO	22901		LONG PT	PROV	PK	100M	S HW	159				MON	ГН - д	uG	80						
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	20000200024	000000000000000000000000000000000000000	0 0 1 2 2 0 0 0 2 5	0 0 1 2 2 0 0 0 2 11	3 2 1 0 0 1 1	0 0 1 3 2 1 0 0		0022200005	0032300005	0022300004	0022100004	0011000.05	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	010000000	0 0 0 0 0 0 0 0 4	0 1 0 2 0 0 0 0 0 6	010200007	* * * * * * * * * * * * * * * * * * * *	0002002200	0 0 2 3 0 0 2 2 0 0	00000000	000000000000000000000000000000000000000	0 0 3 2 0 0 0 0 0 0 0	0 0 1 2 1 0 0 0 0 4
11 12 13 14 15 16 17 18 19 20	0 0 2 10 0 2 4 7	0 0 2 5 0 4 4 4 10 2	2 0 1 6 0 4 6 11 2	3 0 2 5 0 2 6 10 2	3 3 1 2 1 1 1 2	6 0 - 1 2 4 4 4 11 2	* * * * * * * * * * * * * * * * * * * *	9 2 2 2 2 2 5 1 2	2 2 2 3 2 6 2 0	11 3 0 4 2 5	10 2 2 0 3 5 3 1 0	3 7 1 0	4 0 2 2 5 0 2	2 0 - 2 3 0 1 0 1 NVAL1	3 0 0 1 2 0 0 0	3 0 0 1 0 4 0 0	W-30000B00	100000000		0 - 0 0 2 0 9 0 0	0 2 0 0 3 2 10 1	9023	11 0 3 5 10 0	0 10 0 2 6 8	2 2 2 3 5 3 1
21 22 23 24 25 26 27 28 29	0 2 5 3 0 4 8 5	2 2 8 3 0 6 8	5 3 5 3 5 7	15 13 4 11 3 5 8	24 11 6 8 1 1 6	16 8 6 7 0 3 7	*	4 6 8 6 6 0 1 7 4	1 6 10 5 6 0 7 3	0 10 14 5 4	0 11 12 3 3 0 3	0 13 9 3 2 0 3 2	3 10 9 2 0 0 4 2 3	1 NVALI 5 6 6 1 0 0 4 2 3	0 - 6 3 5 0 0 0 17 4	4 2 4 0 0 0 0 21 4 3	4 1 2 0 0 0 0 26 3 2	2 1 1 0 0 0 38 1 2		2 4 6 0 0 35	3 2 4 4 0 1 19 0	4 3 5 2 0 0 16 0	3 2 3 0 0 0 1 0 0 1	033304942	3 7 6 4 3 1 10 4 2
31 MEAN	2	3	4	3	4	5		3	6	3	4	4	2	2	2	3	4	4		2	2	2	1	1	3
WENU	4		3	4	4	4	.0.	3	3	3	3	2	2	1	2	2	2	2	0	2	2	2	2	2	2.5

PERCENTAGE OF DATA VALID - 83.5

PERCENTAGE OF DATA INVALID . 7.8

PERCENTAGE OF DATA UNAVAILABLE - 8.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS . PARTS/BILLICH

	ST	ATION	NMI	NO	22901		LONG	PT PRO	V PK	100M	SHW	Y59				MC!!	TH - 5	EP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 #	EAN
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29	В	6	5	3		15		19	25	24	29	33	22	19	17	15	16	12		7	6	5	4	2	14
30	3	4	7	10	12	15		19	25	24	29	33	24	13		, 5	101700	1.4				· ·			
MEAN	3	4	3	4	3	3	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	3	3	3	3.2

PERCENTAGE OF DATA VALID - 75.8

PERCENTAGE OF DATA INVALID - 2.1

PERCENTAGE OF DATA UNAVAILABLE - 22.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - PARTS BILLION POLLUTANT - SULPHUR DIOXIDE - PPB LONG PT PROV PK 100M S HWY59 STATION . NMP NO 22901 9 10 11 12 13 14 15 16 17 HOUR 3 0 1 2 4 4 14 7 6 0 0 3 6 10 1 3 0 0 2 4 5 6 0 16 0 0 3 7 6 18 0 7 1 0 3 6 7 2 7 1 0 7 4 5 7 5 2 3 44 16 4 1 18 15 16 4 12 13 14 15 16 17 18 19 20 N 0 0 0 0 0 0 0 1 N 1 0 0 1 1 3 15 0 0 0 000-332000 600-044000 000-0000 . 232000 .000 22 23 24 25 26 27 28 29 30 024240-620 00.6202 10 2 0 . 1 0 2 2.7 3 \*\*\*\* MEAN

PERCENTAGE OF DATA VALID . 88.8

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 11.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- . "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

- 103 -

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILL!ON

	ST	TION	· NMP	NO	2290,1		LONG	PT PR	0V PK	100M	S HW	159	5			NON	TH - I	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	3 0 1 2 2 1 4 0 8	3 0 1 2 0 2 4 0 8	3 0 0 2 0 2 4 0 6 0	1012055060	1031055190	0 6 1 0 3 5 1 13 0	*** ** * * * *	100025080	0 1 11 2 0 0 6 0 5	0 1 23 0 0 0 6 0 4	0 1 22 0 0 0 10 0 2 0	0 1 19 0 0 0 10	0 0 16	0 0 15 0 2 5 3 1	0 0 13 . 0 3 4 0 0 0	0 0 0 3 4 0 0 0	00006500	0 0 5 0 0 5 5 0 0 -		0 1 2 0 2 1 3 3 1 0	0 1 3 0 2 1 1 4 4 4 0	0 1 6 0 3 2 2 5 3 0	0 1 8 0 3 5 2 6 3 0	0352362530	1 9 1 1 3 5 2 4
11 12 13 14 15 16 17 18 19	003600222	0 8 7 0 1 2 4 3 3	0 0 13 2 0 0 0 4 1 3	0 0 9 3 0 0 2 3 1 5	0 0 7 3 0 0 3 0 1 4	0095023064		00142220285	0 24 2 2 4 0 2 4 6	0 0 1 3 0 2 5 0 1 5 10	0 17 0 2 11 2 2 5	00150194255	1 0 12 0 19 3 2 5	2 0 10 0 0 16 4 2	007009533	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 7 8 2 1	000000000000000000000000000000000000000		0 1 5 2 0 4 6 1 2 1 5	0 1 5 3 0 4 2 2 3 1 1	0 2 3 0 0 2 3 2 3 1 1	0 1 3 0 0 2 4 2 3 20	0 2 3 0 0 0 3 2 1 3 1 9	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	38 1 11 5 0 0 4 2	34 1 20 4 0 0 6 2	27 1 15 4 0 0 20 1	23 1 13 2 0 0 8 1	20 22 22 0 0 2 4 2	12 3 47 0 0 4 5 2	•	6 8 24 1 3 1 4	4 7 21 1 3 3 2 5	2 3 16 3 2 3 3 3	2 4 14 2 2 2 3 2	2 5 13 2 2 2 2 0 2 - OAT	2 6 14 3 3 3 1 4 UNA	3 11 14 3 1 4 1 6 4 VAILA	3 21 9 2 2 3 1 6 8 8 8 8 8 8 8	3 9 8 3 2 3 1 .	3 6 10 3 1 2 1	3 5 8 2 0 1		3 8 7 0 3 0 2	3 10 8 0 2 1	2 11 6 0 0 1 1 1 1	10 4 0 0 1 1 .	.2 11 4 0 0 4 1	9 7 14 2 1 2 3
MEAN	4	4	4	3	3	5	****	4	4	4	4	4	6	4	4	3	3	з •	•••	3	3	3	3	3	3.7

PERCENTAGE OF DATA VALID - 83.3 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 16.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	P	OLLUT	ANT -	SULP	HUR D	CIXO	E - P	9						HMIT	s - o	SRTS/	RILLI	<b>ON</b>							
	S	TATIO	4 - N	MP NO	2290	1	LONG	PT PI	ROV PE	100M	S H	WY53				MO	NTH -	DEC	80						
DAY	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	13 3 2 0 3	3 2 0 6	5 6 2 0 3	2 6 2 0 3	2 5 3 2	3	5 6 5 0	8 7 6 1		5 3 5 2 3	2 2 5 5	- D.	ATA U	3	LABLE	¥	5	6 5 2 3	3 5 2			14 7 3 2 1 2	19 6 2 1 5	15 2 2 1 5	6 4 3 3
10	12	10	8	3		3	-	2	2	2	2	2	9				5			ŏ	0	ī	1	ō	3
11 12 13 14 15 16 17 18 19	1 6 0 12 5 21 1 14 0 3	0 8 9 2 15 14 3	08352191923	0 7 5 6 5 16 1 10 1 3	0 5 7 8 14 3 9 1 5	7 7 12 2 10 0		120312523	0 10 5 9 20 6 2 6	0 10 3 12 20 5	0 12 0 5 12 15 5 0 0 6	14 2 5 12 13 2	6 22 1 2 32 13 3 	22 2 34 15 2	14 20 27 9 5	12 16 0 20 	14 0 16	10 3 22	•	5 3 0 1 15 3 17 3	5 1 13 3 26 3 0 3	13 27 10 3 22 00 5	14 2 5 0 7 2 16 0 0 5	B 0 0 3 1 2 2 16 0 2 2	6 10 2 4 13 12 8
21 22 23 24 25 26 27 28 29 30	2 31 45 9 2 9	2 20 41 8 0 14	3 9 32 6 0 15	2 10 28 7 0 15	3 16 24 8 0 15	3 13 24 6 0 15	:	3 12 16 5 2 22	23	23	3 12 6 7 2 17	3 10 8 6 2 17	2 15 6 3 20 DATA	10 13 5 3 20 ! NVAI	2 9 13 3 5 20 10 -	1 12 7 3 15		1 22 10 8 1 10		5 34 8 6	7 42 8 6 2 	9 44 10 3 3	9 44 9 3 5 5	10 43 7 2 7	20 17 6 2 16
31	16	15	12	6	3	9		,	•	5	7	9	10			8	13	13		21	19	24	22	19	
MEAN	10	9	7	7	7	7	4	7	7	7	6	7	11	9	8	a	13	13	6	8	9	7	9	,	7.9

PERCENTAGE OF DATA VALID - 69.9

PERCENTAGE OF DATA INVALID - 11.0

PERCENTAGE OF DATA UNAVAILABLE - 19.1

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1990

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/ BILLION

STATION - NMP NO	22901 LONG PT PE	ROV PK 100M S HWY59		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAX: MUM	MAXIMUM READING
JAN	22	1.3	4	. 13
FEB	29	3.6	24	43
MAR	31	5.4	21	50
APR	30	2.3	6	22
MAY	31	2.0	8	36
JUN	22	0.9	3	22
JUL	27	0.7	3	10
AUG	29	2.5	10	38
SEP	24	3.2	14.	33
oct	30	2.7	14:	44
NOV	27	3.7	14	47
DEC	23	7.9	23	52
YEAR	325	3.0	24	52

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 POLLUTANT - SULPHUR DIOXIDE - PP8

UNITS - PARTS/BILLION

TATION .	NMP NO 22901	LONG	PT PROV	PK 100M 5	HWY59					
MONTH	O TO 50 60	T0100 10	0170150	15170200	20110250	25110390	39170490	491 9999	TOTAL	
JAN	501	0	0	0	. 0	0	0	0	501	
FEB	631	0	0	٥	0	0	٥	0	631	
MAR	678	0	0	0	0	0	0	0	678	
APR	651	0	0	0	0	0	0	0	651	
MAY	672	0	٥	0	0	0	0	0	672	
JUN	479	0	o	0	0	0	0	0	479	
JUL	607	٥	0	0	0	0	0	0	607	
AUG	621	o	٥	0	0	0	0	0	621	
SEP	546	0	٥	0	٥	0	o	0	546	
OCT	661	0	0	0	o	0	0	0	661	
NOV	600	o	٥	0	٥	0	٥	0	600	
DEC	519	1	0	0	0	0	0	0	520	
VEAR	7166		٥	٥	٥	0	٥	0	7167	

FREQUENCY	DISTRIBUT	ION BY P	ERCENTILES	5								
	PERCENT OF DATA				FREQUENCY		TRATIONS					ARITH
	VALID	MIN	10	30	50	70	90	95	ō8	99	NAX	MEAN
		~			0.0	2.6	7.0	11.6	. 8 0	24 0	52	1.0

POLLUTANT - SULPHUR DIOXIDE - PPB

		02201		3027	non D			-0						ONLIZ	- РА	H12/8	ILLIO	N								
	s	OITAT	N - NR	IP NO	22902	2	TYNE	SIDE/	CHIPP	EWA RD	BING	ROCKE	WES	T		NON	rh ·	JAN	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	:8	19	20	21	22	23	24	MEAN	
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2	7	6	3	4	3	1		4	6	4	1	O	0	•	4	5	4	6		10	9	6	1	0		4
3	0	2	4	2	- 4	4	-	11	11	11	15	14	17	12	6	7	7	7	*	11	7	8	5	2		7
2			1	20	32	41		19	15	8	7	11	7	7	6	3	3 5 5	6		6	4	2	2	2	1	7
5 6 7	19	15		20	24	25		11	6	20	21 9 5	9	5	4 9	.4	19	3	4	7.0	14	7	6	8	: 1		7
7	19	15	28	25	53	42		8	4	ź	5	4	9	4	59	4	5	7		12	9	12	34	30		6 3 6 1
8	7			3	2	ō		ĭ	2		7	12	12	10	6	8	4	4		7	12	8	8	6		2
8	7	5	5	20 25 3 0	ō	ĭ		4	2	4	i	ō	ō	ő	o	ô	ō	ō		ó	ó	õ	ő	0		1
10	3		1	2	5	4		4	4	9	12	14	13	19	9	9	9	17		14	11	11	11	13		9
11	20	16	14	12	11	9	•	9	7	5	5	5	5	8	15	41	38	7	-	2	1	0	0	1		1
13	3	3		7	3	0		2	1	U	U	U	v	U	4			1	*	2	2		ت	Ĉ		:
14	12	13	14	20	12	4		6	7	20	33	15	11	7	9	9	8	6		7	7	8	6	9		9
15	· 9	6	4	20	2	9		11	7	é	9	9	1.1	11	9	9	7	7	ò	7	39	1.5	11	14	1	2
16	ő	ŏ		ō	á	õ	0	- 11	ź			- 0	-	U	U		3	O	0	٥	0	1	1	- 1		
17	-	-		•	•			340	-			- DA	TA D	AVAILA	BIE .		-		-	•	•	•		•		
18												- 04	TA U	AVAILA	3: 5											
19												- 04	Ta Li	AVAILA	BLF											
20												- 04	TA U	AVAILA	BLE	•										
21													DATA	INVALI	D -											
22														INVALI												
23														INVAL												
25														INVALI											8	
26														INVALI												
27														NVALI												
28												- 1	CATA	INVALI	D .											
29														INVALI												
30														INVAL												
31	••••	••••	••••	••••	••••	••••	••••	****	••••	••••	• • • •	• • • •	-	0	٥	0	C	-	0	0	o	0	0	0	••••	
MEAN	7	6	6	8	10	9	0	7	6	7	9	7	7	6	8	9	-6	5	0	6	7	6	6	1.6	6.	

PERCENTAGE OF DATA VALID - 46.5 PERCENTAGE OF DATA INVALID - 32.5 PERCENTAGE OF DATA UNAVAILABLE - 21.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	POLLUTANT - SULPHUR DIOXIDE - PPB UNIT STATION - NMP NO 22902 TYNESIDE/CHIPPEWA RD BINBROCKE WEST														RTS/8	BILLIC	ON							
	ST	ATION	- NM	P NO	22902		TYNES	IDE/C	HIPPE	MA RO	BINB	ROOKE	WES	r		MON	ITH -	FEB	80						
HOUR	í	2	3	4	5	6	7	8	9	10	Ħ	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 12 2 2 2 2 2 2 2 2 2 2 5	0 7 6 2 5 7 3 1 5 1 9 4 1 4 6 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05305799528 16813613404412 4412	05 31 71 29 5 27 17 14 9 19 11 11 12 8 40 13 42	0 4 2 17 4 56 33 9 26 14 13 19 26 1 3 3 1 9 3 3 1 4 4 3 3 1 4 4 4 4 4 4 4 4 4 4 4 4	1 4 4 3 1 3 4 4 4 3 1 1 8 7 7 2 7 1 4 1 1 1 5 3 1	27 18 33 43 43 43 16 16 15 17 24 11 40 17 33	29 1655 200 1611 5 226 1629 27 1133 9 05	460462158115 125158115 2271992213118357 08	4 6 0 3 7 11 10 25 9 15 20 28 22 11 0 7 35 9	47 03 10 114 9 56 20 10 29 13 7 7 33 14 21 10	0 9 1 4 10 11 16 18 2 19 17 10 21 18 6 16 33 16 6 10		DATA	09 1 64 7 7 15 14 16 8 12 6 10 4 3 - 19 21 13 11 10 11 11 11 11 11 11 11 11 11 11 11	ID -	09 03 24 33 33 9 67 75 15 11 40 15 8	1 12 0 3 3 2 2 11 1 26 7 7 7 14 4 2 8 3 5 12 15 5 5 9	1 222 0 3 3 0 0 5 5 24 4 6 6 5 7 2 24 11 3 3 4 5 5 5 5 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 22 0 1 0 3 0 8 25 4 6 8 20 1 1 1 6 4 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1	21 20 1 4 0 3 1 1 1 1 2 6 4 7 8 1 8 1 1 4 1 4 1 4 1 4 1 1 4 1 1 1 1 4 1	21 20 2 9 3 5 3 22 25 3 7 8 8 4 10 12 3 3	2221775 10055644 177995 7788266114 11221151003	19 15 10 6 6 29 6 8 8 15 5 16 6 10 30 0 1 1 6 8 8 20 20 11 1 2 2 0	13 6 54	5 11 2 8 7 22 17 14 19 10 : 8 18 18 13 6 6 6 3 11 25 10 10 10 10 10 10 10 10 10 10 10 10 10
26 27 28 29													DATA DATA	INVAL INVAL INVAL INVAL	D -										
MEAN	14	14	14	14	13	14	12	11	11	12	33	1.1	12	9	9	9	7	7	7	8	9	9	1:	13	11.0

PERCENTAGE OF DATA VALID - 73.1 PERCENTAGE OF DATA INVALID - 25.9

PERCENTAGE OF DATA UNAVAILABLE - 1.0

- " " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - PARTS/BILLION POLLUTANT - SULPHUR DIOXIDE - PPB MONTH - APR TYNESIDE/CHIPPEWA RD BINBROOKE WEST STATION - NMP NO 22902 24 MEAN HOUR DATA UNAVAILABLE DATA UNAVAILABLE CATA UNAVAILABLE CATA UNAVAILABLE CATA UNAVAILABLE UNAVAILABLE UNAVAILABLE UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE 12 13 14 15 16 17 18 19 20 TA UNAVAILABLE
- 4 4
14 20 22 11 0 10 0 13 0 3 5 3 5 9 0 0 2 4 0 0 7 3 26 6 3 22 3 4 2 2 6 2 22 23 24 25 26 27 28 29 30 3 2 2 0 17 DATA DATA O UNAVAILABLE UNAVAILABLE 0 0 0 0 0 1 

PERCENTAGE OF DATA VALID - 29.7

MEAN

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 70.3

7 7

6.4

HOTES 1. \*\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

- 2 .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - PARTS/BILLION POLLUTANT - SULPHUR DIOXIDE - PPB TYNESIDE/CHIPPEWA RD BINBROOKE WEST MONTH - MAY STATION - NMP NO 22902 24 MEAN HOUR 2 3 10 0 4 51 6 4 0 0 0 8 3 6 42 6 5 0 0 0 13 1 2 54 20005 0 0 3 .00 50. 220. 1 3 1 2 0 1 12 13 14 15 16 17 18 19 20 0 0 ...0 ...0 ...0 ...0 ...0 3 O 3 O ...
DATA UNAVAILABLE
DATA UNAVAILABLE 41 50 4 2 16 11 7 5 2 2 3 3 UNAVATO 2 10 7 4 22 23 24 25 26 27 28 29 2 21 18 28 1 4 5 0 0 3 5 5 6 0 2 0 0 2 7 4 3 2 S DATA DATA c UNAVAIL BLE A ũ ä o Š 4.3 

PERCENTAGE OF DATA VALID - 71.5

PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 25.8

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARIS/RILLION

																4.3,0		rs.							
	S	TATIO	4 - N	AP NO	22902	2	TYNES	I DE /CI	HIPPEN	A RD	BING	ROCKE	WEST			MON	тн - ,	JUN	80						
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0		0	0	0	0		0	0	0	0	0	1	1	2	0	0	2		2		140			0
2	•	•			*				-					4	4	3	3	3	198	1	0	0	0	0	
3	0	0	0	0	0	0	2.6	9	9	9	10	22	4	1	1	1	1	0		1	1	3	3	3	4
4	1	2	3	4	4	2		2	10	1		1	1	1	1	1	1	1		0	1		1	2	2
5	2	4	3	0	0	1		8	3	2	2	1	1	1	0	0	2	3		1	i	1	1	1	2
6	4							100	-	-			-	-			-			174	- 2		18		*****
7 8 9 10						(m)		*		,		. DA	TA UNA TA UNA TA UNA	VALL	BLE		0	o		1	1	0	0	0	
11 12 13 14 15 16	o	0	0	0	0	Ö	٠	0	1	1	2	- DA	A UNA TA UNA TA UNA TA UNA DATA I	VAILA VAILA VAILA NVAL	BLE BLE		2	0	•	0	0	****	••••	••••	1
18								9	8	7	6	6	4	4	5	100	8	7		2	2	2	1	2	
19	10	1.1	13	11	7	5	141	8	12	10	4	1	1	4	9	9	19	37	-	2	0	0	0	0	8
20	0	0	0	0	0	0	•	2	4	3	2	2	2	3	4	4	4	1	٠	1	1	1	1	1	2
21 22 23 24 25 26 27 28 29 30	1 0 3 11 14 4 2 25 0	1 0 3 14 14 7 0 28 0	1 0 3 17 15 9 0 2	1 0 2 14 13 10 0 1 9	13 12 10 0 2 10 0	2 0 1 1 9 11 0 0 4	: : : : : : : : : : : : : : : : : : : :	3 5 4 3 25	2 5 4 8 3 6 1 7 0 3	2 8 5 10 6 7 3 1 4 3	3 8 5 8 10 7 3	3 7 5 8 7	2 4 4 11 7 1 0 1	1 7 6 13 19 7 3 0 2	1 6 9 15 18 8 6 0 3	1 4 11 16 14 8 4 8	1 5 7 20 7 6 4 0 13 3	1 6 7 19 9 5 5 0 11 3	10	3 4 7 17 7 0 9	2 4 9 17 8 10 13 0 11	1 4 12 16 5 6 11 0 7	1 4 9 16 5 6 29 0 3	0 4 9 17 2 4 41 0 2	2 4 6 13 10 7 6 5 5 2
MEAN	4	5	4	4	4	3	11	5	5	5	4	4	3	4	6	5	5	6	8	3	4	4	4	5	4.5

PERCENTAGE OF DATA VALID - 55.7

PERCENTAGE OF DATA INVALID - 7.5

PERCENTAGE OF DATA UNAVAILABLE - 36.8

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. " -- -- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	UTANT	- 5	SULPHU	9 010	XIDE	- PP	3						NITS	- PAI	RTS/R	11110	4							
	STA	TION -	NMF	NO 2	22902		TYNES	DE/CH	I PPEW	A RD	BINB	ROOKE	WEST			MON	тн	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 6 17 8 19	0400200800 031050000	0300250.00 051050000	1140250.00 092050000	0130230200 096010000	0170530100 04800000	00140540100 004030000	***************************************	111250:0:5 382242060	1 1 8 3 4 0 2 0 7 3 1 3 2 5 2 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0	30583030.7 455342042	4-392030-6 40:32:023	100040-7 202240033	30490020.7 2022.0293	60672020.7 2213.2213	10 7 9 3 0 11 0 - 7 2 2 4 10 - 2 2 2 3	625113030.13 2059.22332	3 2 1 17 0 0 3 3 3 1 1 1 0 0 7 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	230.0033.1 0000 10.2254		3605007303 023731022	3500110113203 032732022	230B017003 070931012	1103008000 000 840400	8103009000 050620300	32452141.4 145931151
20 21 22 23 24 25 26 27 28 29 30	0 0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1000000	0 00000000	0 0 0 3 0 0 0	0 0 3 3 0 0 0		3 1 1 0 0 0 0 - 1 2	3 1 1 0 3 2	3 1 1 0 2 0	3 8 1 6 3 0 4 2	5 9 3 4 7 0 0 3 4 2	3 2 3 4 6 2 0 1 2 1	3 4 0 4 6 6 2 0 2 2 2	2 4 0 4 6 6 0 0 3 2 4	3 4 0 3 1 4 - 0 7 3 4	6 20224	2 0 0 3 3 0 . 14 5 2		3 0 2 4 0 0 0 . 3 2 0	3 4 2 0 0 0 2 2 0	3 0 4 0 0	0 5 0 0 0	0 0 3	2 2 2 2 3
31	0	0	0	0	0	0	•	0	0	0	1	4	ý	4	3		A.T.		1-	1	0	0	0	1	1
MEAN	1	1	1	1	1	2		3	3	3	3	3	3	4	4	7	4	3		2	3	2	ï	2	2.6

PERCENTAGE OF DATA VALID - 82.8

PERCENTAGE OF DATA INVALID . 0.0

PERCENTAGE OF DATA UNAVAILABLE - 17.2

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

	PUL	LUIAN		SULPH	UK DI	DATUE		•																		
	STA	TION	- NMI	P NO	22902	1	TYNES	DE/CH	HIPPE	WA RD	BING	ROOKE	WEST			MON	тн -	AUG	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	-1	0	0	0	0	0				3	3	2	2	3	3	3	3	1		1	1	0	0	0		1
2 .	0	0	0	0	0	1	*	2	2	3	3	4	2	4	2	1	1	1		ং 🐧	0	0	0	0		1
3	0	0	0	0	0	0	*	1	1	2	3	3	2	3	4	3	2	3	( =	0	0	0	0	0		1
4	0	0	0	1	1	2		3	4	0	0	0	0	1	2	2	1	0	2.	0	0	2	2	2		1
5	3	3	2	2	1	0	12	0		1	1	1	1	1	1	1	0	0		1	1	0	1	1		1
6	ō	1	1	1	1	1	- 4	1	3	3	5	8	7	6	6	5	5	8		3	3	3	5	5		4
7	4	4	3	1	0	٥	3	2	3	4	4	3	2	1		6	5	5	3.00	4	3	3	2	2		3
8	1	2	2	2	2	2		2	4	4	9	5	4	4	3	1		5		2	2	1	1	1		3
9	1	0	0	0	0	0		0	1	2	2	2	1		1		1	0		4	4	8	9	6		2
10	8	15	15	12	11	1.1	•	1	0	0	0	Q	0	2	1	1	1		*	0	0	1	1	,		4
11	1	1	1	1	1	1	•	0	1	2	0	2	1	0	1	1	0	О		0	0	0	0	0		1
12	1	2	1	2	3	1	* :	0	0	1	2	1	2	2	2	2	1			0	0	1	1	8		
13	1	0	0	0	0	0	1.0	0	0	0	0	1	1	0	0	1	2	2		2	2	0	0	٥		1
14	0	0	0	0	0	1	*:	0	1	1	1	0	1	- 1	2	2	2	2		2	1	1	0	0		1
15	0	0	0	0	0	0	4.1	2	2	2	2	2	1	0	0	0	O	0	7.€	0	0	0	0	0		1
16	0	0	0	0	0	0	•	1	2	3	4	6	5	7	7	5	4	2	: e	0	0	0	0	0		2
17	0	0	ŏ	1	0	1	-	1	2	4	4	4	4	4	8	6	4	0	( ·	0	0	0	2	3		2
18	2	1	ō	0	2	2	-	2	9	7	-	8	8	9	8	5	5	5		2	2	1	0	0		4
19	0	0	o	0	0	0		0	0	0	0	0	1	3	2	3	3	2		2	2	1	0	0		1
20	0	0	0	o	0	0	•	1	4	8	6	7	5	4	5	6	5	2		1	1	1	0	0		3
21	2	7	5	4	3	4		4	6	5	4	5	6	5	7	11	9 B	4		3	7	6	3	4		55562
21 22	4	2	2	1	1	1		3	4	4	5	4	12	19	16	7	В	7	-	3	4	2	3	4		5
23	5	6	8	8	2	0		5	8	8	5	3	4	6	В	8	6	6	7.0	1	1	4	8	8		5
24	10	10	9	13	16	5		35	19	9	2		1	0	0	0	,	4		1	1	1	1	2		6
25 26 27	2	2	1	0	0	0		1	2	2	3	4	2	3	2	4	4	3	180	0	0	0	0	0		
26	0	0	0	0	0	0	•	1	2	4	*	15	14	11	11	11	15	7	-	4	3	2	- 1			5
27	1	1.	0	0	0	0		3	4	4	4	7	7	6	6	6	6	5		3	4	4	4			3
28 29				•		-	•	0	0	0	200	-	0	0	٥	0	0	0		0	0	0	0	0		
29	2	2	1	0	0	0		3	3	3	4	7	3	. 4	5	5	4	3		2	2	2	2	2	2000000000	3
30	2	2	2	2	1	0	٠	0	0	••••	****	••••	****			••••				****	****			••••	****	
31												•	DATA	INVAL	10 -											
					_		ALC: THE CALL	_			_					-	261			L.	-				_	

PERCENTAGE OF DATA INVALID - 5.4

PERCENTAGE OF DATA UNAVAILABLE . 9.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE - PPB UNITS - PARTS/BILLION TYNESIDE/CHIPPEWA RD BINBROOKE WEST HOUR INVALID DATA
DATA
DATA
OATA
DATA
OATA
OATA
OATA 2 3 4 5 6 7 8 9 0-24000004 0 0 2 6 0 4 1 0 0 3 0 0 8 1 15 1 14 0 5 13 16 32673215 2244130041010 3 1 5 24 1 . 13 29 0 1 1 18 0 0 7 0 1 2 0 0 4 20 17 0 0 2 2 1 0 0 0 7 1 6 24 1 0 0 0 14 1 6 0 1 23 0 0 19 15 0 0 0 8 3 3 16 11 0 0 17 0 7 33 16 55 0 0 5 1 0 0 64 0 0 4 3 17 0 0 1 0 6 0 C 8 3 7 0 1 6 23 0 0 0 14 14 19 0 26 0 0 7 9 

PERCENTAGE OF DATA VALID - 58.3

MEAN

PERCENTAGE OF DATA INVALID - 35.4

PERCENTAGE OF DATA UNAVAILABLE -6.3

3 ....

3.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

3 \*\*\*\*

- \*- \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

	STA	TION	- NMI	P NO	22902		TYNES	DE/C	HIPPEN	VA RD	BINB	ROOKE	WEST			NON	TH - (	DCT	80						
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	-14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4	14	12 0	7 0 1 0	0 0	6 0 1	7 0 4	:	17 0 0	17 0 0	17 0 0	14 0 2	16 0 3	16 3	10 22 2	B 9 4	7 5	7 2 6	6 17 4	•	5 0 2 1	4 0 4 1	1 0 0 1	31 0 0	46	12 1 4
5 6 7 8 9	0 0 0 5 12	0 0 2 8 13	0 0 2 3 14 9	0 7 2 15 8	0 1 2 15 7	0 1 3 16 8	•	0 1 5 20 7	0 1 7 6 19 6	0 6 7 16 4	1 2 4 7 28 2	2 1 3 7 17 3	2 0 5 26 4	2 0 5 6 27 4	2 0 3 7 17 6	2 1 2 8 12 5	2 1 3 10 3	0 0 1 4 3	•	0 0 0 4 3	0 0 0 10 3	1 0 10 2	0 1 0 10 2	0 0 1 0 12 2	1 0 2 3 14 5
11 12 13 14 15 16 17 18 19	3100001202	5-00000000	6100002113	3 1 0 0 0 0 0 2 0 2 3	2 2 0 2 2	30000142021		000000000000000000000000000000000000000	3 0 0 0 1 7 2 0 2 0	3 0 0 0 5 21 0 2	5 0 0 0 4 33 0	335	16000	0 0 0 0 1 1 9 1 0 0	0000116210	000000	0 0 7 0 8 1	0 0 0 0 0 9 1 1 2		0000110102	0000117116	1000116036	-000006056	1000014044	2000129112
21 22 23 24 25 26 27 28 29 30	3 0 1 12 6 0 2 4 1	30214302231	3 0 11 17 1 0 2 2 3	2 0 16 14 1 0 2 3	2 0 2D 12 0 0 2 3	1 0 16 11 0 0 3 4 1		0 0 1 1 8 0 4 1 5 1	0147011523	0 0 2 5 0 1 3 6 2 5	2 1 6 0 2 4 5 2 5	3 1 1 7 1 6 0 2 5	2009315213	9011	0 0 2 10 0 1 2 2 1	0 0 1 5 0 1 2 2 1 3	0013013211	0 1 3 0 1 3 2 0 6		022302214	0224022615	0 2 4 4 0 2 3 1 1 2	0 1 8 5 0 1 3 1	0 1 9 6 0 1 1 1	1 5 8 1 1 3 3
31 MEAN	4 3	4 3	3	4 3	4 3	3	••••	5 3	5 3	5 4	5 4	4	4	2 4	4 3	3	4 2	2		3 2	1	1	3	1 3	3 3.0

PERCENTAGE OF DATA VALID - 90.3 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 9.7

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POI	LLUTAN	T -	SULPH	UR DI	XIDE	- PPE	3					4	JNITS	- PA	RTS/B	ILLIO	N							
	ST	ATION	- NM	P NO :	22902		TYNES	DE/CH	11 PPEW	A RD	BINB	ROOKE	WEST			MON	TH + 1	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2	1	1	1	1	1	1	•	3	2	2	3	3	2 LA UNA	2 AVAIL	2	. 1	1	1	1	1	•		•	•	2
			121					-							30	23	17	20		24	24	23	20	23	
7			11	-	10	-		•	(2)	•	-	•	•		30			2	_		• • •		2	- 3	5
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9	1	1	- 2	- 2	- 4	1	-		0	- 1	1	2	3	2	- 2	- 2		2		1	0			2	
	0	0	٥		3	4	•	11	8	3	2		2	4	4	2	2	2	•	2	3	3	4	2	3
7	8	9	10	10	9	7		6	8	9	11	14	16	17	14	8	8	6	-	5	3	2	1	0	8
8	0	0	3	4	4	2		•	- 1	В	1.1	4	3	2		1	1	1	•	1	2	5	8	7	3
9	6	3	2	2	3	3		15	13	9	6	6	5	2	1	٥	٥	0	(#X)	2	2		1	1	4
10	0	0	2	0	1	٥	•	0	. 1	1	1	1	0	0	0	0	0	0	•	3	2	0	0	0	1
11	0	0	0	0	0	0		٥	0	0	. 5	3	1	1	1	2	2	3		0	0	0	0	0	•
12	0	0	0	3	6	8	•	1	6	9	14	1.1	5	2	1		1		-	1	1	0	0	- 1	3
13	1.	1	1	1	1	8		12	1 1	16	30	20	12	13	14	15	15	15	-	11	10	10	10	10	11
14	9	8	5	5	5	5		3	2	4	1	0	0	0	0	3	5	5		3	3	8	1.1	17	5
15 16 17 18	12	13	12	14	12	4		2	5	6	2	0	1	1	7	1	1	1	-	1	2	4	6	8	5
16	5	5	8	6	7	R		2	3	13	11	5	4	5	5	6	6	5		9	5	3	3	3	6
17	4	3	- 5	15	20	10		8	5	87	28		R	6	•	2	2	2		ă	4	7	6	4	11
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19		**	1	7	7	÷		10		ŏ	1.7	9	•	3	11	-	5	4	20	7	2	4	7	7	ž
20	4	2	2	2	2	4		6	6	6	10	11	12	13	21	30	10	6		10	19	24	17	14	11
21	14	25	32	27	22	20		11	8	6	4	4	3			0	0	o		4	2	2	1		я
22		• • •	2	2	-0			8	10	12	-	3	4	3	6	8	17	16	2		2	6	8	à	ě
23	4	6	á	14	15	14		34	48	43	33	35	31	40	18	18	17	14		16	11	10	10	11	21
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25	0	0	0	0	0	0	•	1	3	6	3	1	1	1		100		1		0	- 1	1	2	3	1
25 26 27	1	0	0	0	0	0	•	4	3	4	3	2	4	3	2	1	- 1	0		1	- 1	2	3	3	2
27	5	5	9	15	16	33		1.1	6	4	6	6	4	2	7	5	3	5	(4.0	8	4	3	2	3	7
28	3	2	2	2	3	4		3	3	4	7	6	4	2	3	4	4	5	•	7	5	5	5	5	4
29	5	5	5	5	3	4		3	3	4	4	4	4	4	5	4		1	5.0	0	1	0	0	0	3
30	1	1	2	2	2	2		3	3	3	1	٥	2	2	2	14	7	2	1€0	5	2	4	3	2	3
MEAN	5	5	5	5	6	6		6	6	10	8	7	6	5	6	6	5	4		4	4	5	5	5	5.6

PERCENTAGE OF DATA VALID - 86.0 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 14.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE - PPB UNITS - PARIS/BILLION STATION - NMP NO 22902 TYNESIDE/CHIPPEWA RD BINBROCKE WEST MONTH - DEC 80 24 MEAN HOUR 9 10 :7 2 3 4 5 6 7 8 9 8 2 55 7 4 9 8 0 1 20 0 0 2 4 4 8 1 2 5 32 10 6 11 16 0 0 1 3 5 7 1 4 7 6 4 10 5 11 1 2 39 12 3 10 7 0 2 15 6 13 10 13 12 1 1 1 6 6 10 6 12 1 11 6 0 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 13 2 1 0 0 8 0 1 0 0 6 1 1 0 0 \*\*\*\*\* 22 13 18 35 18 33 23 35 18 22 44 24 14 22 31 34 13 25 40 28 17 17 18 36 22 18 16 40 16 36 24 34 17 23 28 36 19 38 33 5 16 21 43 5 16 20 35 8 15 20 35 11 15 19 32 13 13 18 32 8 \*\*\*\*\* 

PERCENTAGE OF DATA VALID - 66.0

PERCENTAGE OF DATA INVALID . 0.0

PERCENTAGE OF DATA UNAVAILABLE - 34.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

	With the second			
STATION - NMP N	0 22902 TYNESIDE/	CHIPPEWA RD BINBROOKE WEST		*
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	15	6.9	16	59
FEB	21	11.0	25	79
MAR		DATA UNAVA	ILABLE	
APR		6.4	13	50
MAY	21	4.3	9	51
JUN	17	4.5	13	41
JUL	27	2.6	•	99
AUG	28	2.5	6	35
SEP	19	3.9	13	64
OCT	31	3.0	14.	46
NOV	28	5.6	21	87
OEC	21	7.7	34	55
YEAR	236	5.0	34	99

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE - PPB

UNITS - PARTS/BILLION

STATION .	NMP NO	22902	TYNESIDE/CHIPPEWA	RO	BINGROOKE	WEST	

MONTH O	TO 50	60 TO100	10110150	15170200	20110250	25170390	39110490	491 9999	TOTAL
JAN	344	2	0	0	0	0	0	0	346
FEB	503	6	٥	0	0	0	٥	0	509
MAR		DATA UNAV	AILABLE						
APR	214	0	٥	0	0	0	٥	٥	214
MAY	531	1	0	0	0	0	0	0	532
JUN	401	0	0	0	0	٥	٥	0	401
JUL	615	1	0	0	0	0	0	0	616
AUG	630	o	0	0	0	0	o	0	630
SEP	418	2	0	0	0	0	0	0	420
OCT	672	0	0	0	o	0	o	0	672
NOV	618		0	0	0	0	o	0	619
DEC	488	3	0	0	0	o	0	0	491
YEAR	5434	16	0	0	0	0	0	0	5450

#### FREQUENCY DISTRIBUTION BY PERCENTILES

 PERCENT			-		CONCEN	TRATIONS					
OF DATA				FREQUENC	Y DISTR	IBUTION.	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
67 B	0	0.0	0.2		4.9	12 1		20.0	25.0	90	

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POI	LLUTANT	ION - WC NO 26029 TRAILER EDNA/FREDERICK ST KITCHENE														RTS/M	ILLIC	N						
	STA	TION .	WC	NO	26029	•	TRAILE	R E	DNA/FR	EDERI	CK S	т к	TCHEN	ER		MON	тн -	JAN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	1	2 13	. 14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 1 1 1	0 0 0 1 1 1 1	0 1 0 0 1	0 1 0 0 1	0 0 1 1 0 1	0003100	0 0 0 2 1 1 0	0 0 0 0 2 1	0 0 0 1 0 2 0	0 0 1 0 2 0	0 0 0 2 0 1 0		0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ABLE		0 0 1 0 1	0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 2	0 0 0 1 0 1
11 12 13 14 15 16 17 18 19	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000001	000000000000000000000000000000000000000	.000001011	0 0 0 0 1 0 1 1	000000000000000000000000000000000000000	00000001011	00000011	0 0 0 0 0 1 1	0 0 0 0 1 1		0	0 0 0 2 0 1 2 1 1	0 0 0 2 0 1 2 1 1	0 0 0 1 0 1 2 1 1	000000000000000000000000000000000000000	0000101211	00000000	00 00 10 1211	0000101211	0000101211	00000101111	00000000	0 0 1 0 1 1 1 1 1
21 22 23 24 25 26 27 28 29	3	1 1 0 0 0 3 1 0 0	0 1 0 0 3 1 0	1 1 0 0 2 0 0	00000	0 1 0 0 2 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0-0000	010000	1 1 0 0 2 0 0 0	0 0 2 1 0		2 2 2 0 0 0 0 7 2 0 1 0 1 0 ATA	0	1 2 0 0 2 0 0 0	1 1 0 0 1 0 0 0 2	0 1 0 0 1 2	1 1 0 0 1 2	1 1 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 2 1 0 0 1 2	1 0 0 2 1 0	1 0 0 2 1 0	1 0 0 4 2 0 0 0 1 2	1 0 0 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 1 2 0 0 0
31 MEAN	3	3 1	3	3	3 0	2 0	2	0	2 0	2 0	,	Ċ	1	1	0	1	1	1	î 1,	1	1	1	1	1	0.6

PERCENTAGE OF DATA VALID - 79.7

PERCENTAGE OF DATA INVALID - 9.0

PERCENTAGE OF DATA UNAVAILABLE - 11.3

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY WEAR IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

	-066		-	O E C III	04 010												5/5/17/7	9333						1.00	
	STAT	ION -	wc	NO	26029	т	RAILER	EDN	A/FRE	DERIG	CK ST	KIT	CHENER	ŧ		MONT	н - г	EB	80						
HOUR	•	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5	1 1 2 0	3	1 1 2	1	: : : :	1 1 1 2	1 1 2 3	1 0 1 1 3	2 0 1 3	1 2 1 2 4 1	1 2 1 2	0	0 1 1	0 2 0 1	0 1 0 1	0 1 0 1	0 1	1 3 0 1	1 3 0 1	0 1 1 0	0 1	1 1 1 0	1 2 1 1	1 1 2 1 1 0	1 1 1 1
7 8 9	2 0 0 0 3	0 0 4 0	1 4 0	4	4	6 4	0 5 4 0	0 5 4 4	4	3 5 2	3 2	2 2	0 4 1 2	0 2 0 1	0	0 4 0 1	3	0 2 2 0	3	0 2 2 0	0 3 1 0	0 0	2 1 0	0 2 1	0 3 2 1
11 12 13 14 15 16 17 18 19	0 1 0 2 1 0 0 1 2 2	0 1 0 2 2 0 0 1 2 3	0 1 0 2 2 0 0 1 2 2	0 1 0 3 1 0 0 1 2 3	1 0 4 1 0 0 1 2 3	1 0 3 1 0 1 2 4	1 1 3 1 1 0 1 2 4	1 1 3 1 2 0 1 2 4	1 1 2 2 1 1 1 1 2 5	1031111125	1 0 1	0 2 0 1 0 0 1 2 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 0 1 2 2	000100121	0 1 0 0 1 2 1	0 1 0 1 1 2 2	010101122	1 0 0 0 1 1 2 2	1 0 1 0 0 0 1 1 2 2	0 1 0 0 0 1 2 2	1 0 0 0 1 3 2	1 0 0 1 1 3 2	0 1 1 0 0 1 2 3 2	0 1 1 0 0 1 2 3
21 22 23 24 25 26 27 28 29	10000000	100000001	000000000000000000000000000000000000000	1 0 0 0 0 0 0 0 1 1	100010001	1 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1	1 0 0 1 0 0 1	1 0 1 0 0 1	1 0 2 0 1 0 2 1 0 2	1 0 0 0 1	10200000	301000000	3 1 0 0 0 0 0 0 0 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000	0 0 0 0 0	000000	000000000000000000000000000000000000000	1 1 2 0 0 0 0 0 1 0 0 1	0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 1	001000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
28 29	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0 0	0 0 0	0 0 0 0	0 1 0 0 0	0 1 0 0 0 2

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	UTANT	- s	ULPH	UR DIO	XIDE							,	INITS	- 0.	01 PA	RTS/MI	LLIO	N						
	STAT	10N -	WC	NO	26029	T	RAILER	EOM	NA/FRE	DERI	CK ST	KIT	CHENER	₹		MON	TH - N	IAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	,,,	1.2	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9 10	1 2 2 1 1 0 0 0 0 0 0	1 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 2 1 1 0 1 0 0 0 0	1 2 1 1 0 0 0 0 0 0 0	1 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 0 0 0 0 0 0 0 0 0	0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	111101000 00	1 3 1 1 2 0 1 1 2 1 0 0	0212401131	0 2 2 2 2 2 2 2 1 1 2 1 0 1	0 1 2 2 0 0	0 1 1 2 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0	20001	0 0 1 1 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0	0001100112	1 0 1 1 0 0 1 2 0 0	0 1 1 0 0 1 1 0 0	1 1 0 1 0 0 1 1 0 0 0 1	1 0 1 0 0 0 0 1	11000,00000 00	2 1 1 2 0 0 0 1 0 0 0 0 0 0 0	3 0 0 1 0 1 0 0 1	2112001010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12 13 14 15 16 17 18 19	0 1 0 0 1 0 0 3	0 0 0 1 0 0 2	0 1 1 0 1 2	0 1 0 1 2	0 0 3 0 1 1 0 1 1	0 0 0 1 0 1 1	0 0 0 1 0 1 1	001002012	00000000	0 0 1 1 0 1	0	00001	000000	0000011	0 0 0 0 0 1 1	0 0 1 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 1 0	0 0 1 0 0 1 1	0 0 0 1 2	00010011	0 0 1 0 0 1 0	0 0 1 1 0 0 2 0	0 0 1 1 0 0 2 0	0 0 1 1 0 1 1
21 22 23 24 25 26 27 28 29	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000001000	0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000	0 0 0 0 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	1	0 0 0 0 0 0 0	0 0 0 4 1 1 2 0 0 0	0006001000	0005000000	0004000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000100	0000000000	0000000000	0000000000	0001
31 MEAN	0	0	0	1	0	0	0	0	1	0	1	1	0	1	٥	0	c	0	0	0	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID . 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. "---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

														100												
	STA	TION	· wc	NO	26029	•	TRAILER	EDN	A/FRE	DERIG	CK S	г кі	TCHENE	R		MON	TH - /	PR	80		, S					
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	MEAN	
1	0	o	0	0	0	0	1	0	1	2	2	!	2	2	1	1	1	1	1	0	0	1	1	1	!	
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7	0	1	1	1	0	1	2	2	2	2	1	2	2	1	í	2	1		ī	ĩ	ŏ	ō	0	0	1	
8	0	0	0	0	2	3	1		1	1	1			0	0	0	C	1	1	1	0	0	O	0	1	
9	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	3	2	2	2	2	2	2	1	1	1	
10	1	1	1	1	1	1	1	1	1	1	. 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11	1	1	1	1	1	1	2	2	2	2	2	••••	1	1	2	2	1	1	1	2	1	1	1	2	1	
12	2		- 1	ò		1	!	1	1	2	2	2		1	1	!			1	1	1	1	1			
14	'n	à	ò	0	0	0	ò		- 1	- 1	- !	- !		- 1	- 1			- 1	- 1		- 1	1	- 1	1		
15	٠	ĭ	٠	٠,	Ÿ	Ÿ	Ÿ			- 1	- 1	1			0	- !		- 1	1	- 1	1	1	- 1			
16	- 1	i	- 1	-	ì	- 1	1		- 1	2	,	,	1	- 1		- 1		-	1		0	- 3	- 1	- 1		
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19	3	2	2	1	ī	2	4	3	3	2	1	2	2	1	1	2	2	1	ż	2	2	- 7	1	1	2	
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	7	2	1	
21	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	
22	1	1	1	1	1	1	1	1	1	1	1	••••	0	0	0	0	1	0	0	0	0	0	0	0	1	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	000	0	0	0	0	1	0	0	0	
24 25	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	0	ŏ	0	0	0	0	0	ö	0	Ö	ò	1	ò	0	0	0	0	0	0	0	0	0	0	0	0	
27	ŏ	0	0	ő	ŏ	٥	ŏ	ŏ	ò	0	0	0	ő	0	0	0	0	C	0	0	0	0	0	ö	2	
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29	ŏ	ŏ	o	ŏ	ŏ	ŏ	0 **		··. ·			ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	
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MEAN	1	1	,	1	1	•	1	1	1	1	1	1	1	1	1	1	1	1	Ť	î		1	1	1	0.7	

PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	UTANT	- s	ULPHU	R DIO	XIDE								UNITS	- 0.	01 PA	RTS/MI	LLION	•						
	STAT	ION -	WC	NO 2	6029		TRAILER	ED	A/FRE	DERI	CK ST	KI	CHENE	R		MON	TH - M	AY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	MEAN
1 2 3 4 5 6 7 8 9	000000000	000000000	000000000	0000000000	000000000	000000000	00000000	000000001	0 2 0 0 0 1 0 0 0 2	1 0 0 0 0 0 0 0 0	100000000	000000000	00000	000000000000000000000000000000000000000	000000000	0000000000	0000000000	000000000	000000000	0000000000	000000000	0 0 1 0 0 0 0 0 0	000000000	000000000	000000000
11 12 13 14 15 16 17 18 19	0000001000	000001000	0000000000	000001000	0000001000	0 0 0 0 1 0 0 0	000001010	0000001010	000000000000000000000000000000000000000	000000000	0 0 0 0 0 1 1	00000	0000000	00000000011	000000011	00000012	0000000011	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	000000006	0000010008	0000010018	0000010005	000000012
21 22 23 24 25 26 27 28 29	3 0 0 1 0 0 1 0 2 1	2 1 0 1 0 0 1 0 2 1	1 3 0 1 0 0 1 0 2	1 2 0 1 0 0 1 0 2 1	1 2 0 1 0 0 0 1 2 1	1 2 1 1 0 1 1 1 1 3 2	1 1 0 0 1 0 1 3 3	1 1 0 0 1 1 1 2 3	0	1	1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0	100000000000000000000000000000000000000	1 0 1 0 0 0 1 1 0	0 0 1 0 1 2 0	0 0 1 0 0 1 1 1 2 0 0	0 0 1 1 0 1 1 2 2 2 0	0 0 1 1 0 1 1 3 1 0	0 0 1 1 0 1 1 0	0 0 2 1 0 1 1 2 0 0	0 0 2 1 0 1 1 3 1 0	1 0 2 1 0 1 1 3 0 0	1 0 4 1 1 1 1 2 0 3	1 1 1 1 1 1 1 1 1
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

0.0

24 MEAN

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLICN STATION - WC NO 26029 TRAILER EDNA/FREDERICK ST KITCHENER WONTH . JUN HOUR .00 0000:0000 0000-00000 00000-00000-0000 000-00000-

00-2200000 00-2200000 22 23 24 25 26 27 28 29 30 00004-0000 2.000 -00000 o 0.4 MEAN

00200:1010 0000-0000

0 0 1

PERCENTAGE OF DATA UNAVAILABLE -

PERCENTAGE OF DATA UNAVAILABLE .

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

0-0

PERCENTAGE OF DATA VALID - 99.0

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

00---00

o

1 0 1 0 1 2 1

PERCENTAGE OF DATA INVALID . 1.0

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 26029 TRAILER EDNA/FREDERICK ST KITCHENER MONTH - JUL 24 MEAN 1 2 3 4 5 6 7 8 9 10 0-0 0 1 1 12 13 14 15 16 17 18 19 10-0000000 111000-00 101000-00 -00000000 --000000 .0000000 0000-00 .000000 22 23 24 25 26 27 28 29 30 00000-000 00000-0000 0000-00-000-000 000000-000 000000-0000-0000 00000000-00. 00. MEAN

PERCENTAGE OF DATA INVALID - 0.9 PERCENTAGE OF DATA VALID - 99.1

- NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - -- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 PARTS, MILLION

	STAT	ION -	WC	NO 2	6029	1	RAILER	EDN	A/FRE	DERIG	CK ST	KIT	CHENER			MON	тн - д	lug	80						
HOUR	1	2	3	4	5	6	7	В	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	1 0 0 1 0 0 0 0	1 1 0 0 1 0 0 0	1 0 0 1 0 0 0	1 0 0 0 1 0 0 0	1 0 0 0 1 0 0 0 0	1 0 0 1 0 0 0 0 0	1 1 0 0 1 1 0 0 0 0 0 0 0	000-0-000	0 0 0 1 1 0 0 0	0 0 1 1 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0100000000	000000000	0000000000	0000000000	0000000000	000000000	000000010	000000000000000000000000000000000000000	000000000	0000000000	000000000	000000000
11 12 13 14 15 16 17 18 19	0000000000	000000001	000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 1	100000000	1000001002	:00000000	000000001	0000000000	0000000	0001000100	000000001	000000000	000000000	000000000	000000000	0000000000	0000-0000	000000000	000000000	000000000000000000000000000000000000000	6000000000
21 22 23 24 25 26 27 28 29 30	00001000011	0 0 0 1 1 0 0 0 1 1	0 0 0 0 0 0 0 1 2	0 0 0 0 0 1 2	0 0 0 0 0 1	0 0 0 1 1	0 0 0 1 1 0 0 0 1 2	0001201011	0010301021	1 1 0 1 1 1 0 1 3 0	1 1 0 0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 1 1 1 1 2 0 0	1 1 0 0 1 1 0 1 0 1 0	0 1 1 0 0 1 1 1 1 1 1	1 0 0 1 1 1 0	000000000000000000000000000000000000000	1 0 0 0 1 1 1 1 1 1 0	1 0 0 1 1 1 1 0	0 0 0 1 0 1 0	0 0 1 1 0 0 0 0	0 1 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0-00000000	000000000	0 0 0 0 0 1 0 1 1
31 Mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES GRANCH

	POL	LUTANT	· s	ULPH	UR DIQ	XIDE							L	NITS	- 0.0	DI PAR	RTS/MI	LLIO	V						
	STA	TION -	WC	NO	26029		TRAILER	EDN	A/FR	EDERI	CK ST	KIT	HENER			MONT	rH - S	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	000000000	00000000	000000000	000000000	0 0 0 0 0 0 0 0	000-0000	0 0 0 1 0 0 1 0	0 0 0 1 0 1 0 2 0	0 0 1 0 1 0	1 0 1	0 0 1 2 0 1 0 1	0 0 0 2 0 1 0 1 0	000000000	0001000-00	0 0 1 0 0 1 0	001200010	0003000-0	0 0 0 0 0 0 1 0	0 0 2 1 0 0 1 0	000210010	0 0 0 0 0 1 1 0	000000000	000000000	00000000	0 0 1 0 0 1 0
10 11 12 13 14 15 16 17 18 19	0 0 1 0 0 1 1 1 1 0	0 0 1 0 0 1 0 0	0 000-000-00	0 0000000000	0 1 0 1 0 0 0	0 0 0 1 0 1 1 1 0 1	0 0 0 0 0 1 2 0 1	0 0000001301	0 1 1 0 0 1 1 1 1 1	0 1 1 0 0 1 0 0 2 1 1	0 0 2 0 0 1 0 0 1 1 1	0 0 2 0 0 0 0 1 1 1	0 4 0 0 1 1 0 1 1 2	0 4 0 0 1 1 0 1 1 1	0 4 0 0 1 1 0 1 1 1	0 2 0 0 1 1 1 1 1	0 0 1 1 1 1 0 1	0 0 0 0 1 1 1 0 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 1 1 0 1	0 1 2 0 1 1 0 1	0 1 2 0 1 1 1 2 0 2	0 1 1 0 1	0 1 1 0 1 1 0 1	0
21 22 23 24 25 26 27 28 29 30	100000001	100000001	-000000000	000000000	0000000000	0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 1 0	0001000000	000000000000000000000000000000000000000	1 1 0 1 2 0 0 0	20000	1 0 0 0 0 1 1	0 0 0 1 1 0 0 0 1 1	0 0 0 1 0 0 0 1 0	000000000000000000000000000000000000000	0 0 0 1 1 0 0 0 0 0	000110000	0000	0 0 0 0 1 1	00000000	000000011	000000011	000000000	0 0 0 1 0	0 0 0 1 1
MEAN	0	0	0	0	0	0	0	٥	1	1	1	0	1	0	υ	U.	U	U	O	U	U	U	U	ن	6.4

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - C.C' PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE TRAILER EDNA/FREDERICK ST KITCHENER MONTH . OCT STATION - WC NO 26029 24 MEAN HOUR 00. 000000--000000-0-3 000000-000 000000---DATA INVALID 12 13 14 15 16 17 18 19 DATA •••• .. •• INVALID .... 0 0 0 0 1 0 .... 1 1 .... 1 0 0 0 0 0 0 0 1 1 0 0 0-0-00-01:10001 22 23 24 25 26 27 28 29 30 01-2000-00-0-0000 0000000-0000-0 0.4 MEAN 

PERCENTAGE OF DATA VALID - 80.5

PERCENTAGE OF DATA INVALID - 11.4

PERCENTAGE OF DATA UNAVAILABLE . 8.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 26029 TRAILER EDNA/FREDERICK ST KITCHENER MONTH . NOV 24 MEAN 17 18 DATA UNAVAILABLE
0 0 0 2
3 4 4 4
0 0 0 0
1 0 0 0
0 0 0
2 2 2 2 2
0 0 0 0 0
0 0 0
0 0 0 0 1 2 3 4 5 6 7 8 9 10 7 0 00000-000 00000-0-0 0400000-0 0.0-00000 00000-000 00000-000 00000-000 00000-000 000-0-0 0-900 02-0000000 001-0010000 12 13 14 15 16 17 18 19 20 0000-02000 00:000000-0-01007000 0-0000--00 0000-03000 22 23 24 25 25 27 28 29 30 10-0000000 0-3-000 00000-0000 -0-0000000 0.4 MEAN 

PERCENTAGE OF DATA VALID - 95.8

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 3.3

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- WC	NO	26029		TRAILE	R EDN	A/FR	EDERIC	K ST	KIT	CHENER	8		MON	TH -	DEC	80						
HOUR	1	2	3	4	5	6	7	- 8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	2	2	i	2	1	•	٥	o	0	0	1	,	0	0	0	٥
2	ā	ō	ŏ	0	ō	ŏ	ō	o	ō	ō	ō	0	ō	o	ò	0	ō	ō	ŏ	ó	o	0	o	ō	0
3	000	ŏ	ō	0	ŏ	ō	o	ŏ	ĭ	ō	ī	ī	ŏ	ō	o	0	o	ō	o	ō	ō	o	0	0	0
4	o	0	0	0	1	- 1	0	0	0	2	4	0	o	0	0	1	1	1	2	3	3	1	0	0	1
5	0	2	2	2	1	2	2	2	2	2	2	1	1	1	1	0	0	0	0	1	1	1	1	2	1
6	1	2	2	1	1	ī	1	0	ō	o	1	1	1	1	- 1	1	1	0	0	0	0	1	1	•	1
7	0	0	1	1	1	1	2	2	1	1	1	2	2	3	3	3	3	1	2	0	ō	0	0	0	1
8	2	1	0	0	0	0	0	Q	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	٥
9	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	C	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	٥	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	٥	0	0	0	0	0	0	٥	o	0	O	Ų	U	u	Ü	O	U	U	U	Ü	Ü
15 16 17	0	0	0	0	0	0	0	1	2	3 .		1	2	2	2	2	1	1	1	,	1	1	1	1	1
16	1	1	1	2	2	0	0	0	0	0	0	٥	0	0	1	0	0	o	0	0	0	0	0	0	0
17	0	0	٥	0	0	٥		1	2	2	1	2	0	٥	0	0	0	0	0	0	0	0	0	0	0
18	0	1	1	1	1	1	1	٥	0	0	0	٥	٥	0	0	0	0	0	0	0	0		0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	1	0 '	0	0	0	0	0	0	0	0	0	0	0	0
20	0	٥	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 23	1	1	1	1	1	1	1	2	3	2	- 1	1	2	1	1	1		- 1	1	1	1	2	3	4	2
23	5	5	6	6	6	5	5	4	4	4	4	4	3	3	3	2	1	1		2	3	3	2	2	7
24 25 26 27 28	3	3	3	2	2	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	- 1	1	1	
25	1	0	0	0	0	1	2	4	1	- 1	1	0	0	1	1	0	0	0	0	1	0	0	0	5	- 1
26	0	1	0	0	1	0	. 0	ō	1	2	2	2	2	2	2	2	2	1	1	2	2	2	2	•	
27	5	4	4	6	6	8	8	6	7	8	5	3	2	2	2	2	2	3	3	3	2	1	7	1	
28	2	3	4	4	3	6	3	5	7	4	5	3	3	3	د	4	4	4	4	4	5	7	7	7	4
29	4	5	5	4	3	3	3	4	7	5	2	2	2	2	2	2	2	1	2	1	1.	1	0	0	0
30	0	0	0	0	٥	0	0	0	0	-1		•••	3	0	0	0	0	0	1	0	0	0	U	O	U
31	0	0	1	2	1	0	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	1	1	,
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	•	1	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC	NO 26029 TRAILER	EDNA/FREDERICK ST KITCHENER		
MONTH	NO OF CAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	24	0.6	2	4
FEB	29	0.9	3	6
MAR	31	0.5	•	6
APR	30	0.7	2	5
MAY	31	0.4	2	8
JUN	30	0.4	2	5
JUL	31	0.4	1	3
AUG	31	0.2	4	3
SEP	30	0.4	1	4
OCT	23	0.4	2	4
VCH	29	0.4	2	9
DEC	31	0.9	4	8
YEAR	350	0.5	4	9

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXICE

UNITS - 0.0: PARTS/MILLION

			N-920004 - 0.000																			10.11				
STATION .	WC	NQ	260	29		TRA	ILER	E	NA/	FRE	DE	RICK	ST	KI	CHE	NER										
MONTH	00	TO	05	06	TO	10	1.1	to	15	16	T	20	21	10	25	26	TO	39	40	TO	49	50	&CV	ER	TOTAL	
JAN			593			0			0			0			0			0			0			0	593	3
FEB			687			1			0			0			٥			0			0			٥	688	3
MAR			734			1			0			0			٥			0			0			0	735	5
APR			711			0			0			0			٥			0			0			0	711	ĺ
MAY			731		٠	3			0			0			٥			0			0			0	734	4
JUN			713			0			0			0			0			٥			0			0	713	3
JUL			737			0			0			0			0			0			0			0	737	7
AUG			739			0			0			0			0			D			0	10		0	739	9
SEP			715			0			0			0			0			0			٥	s		0	715	5
ост			599			0			0			0			0			0			0			0	599	9
NOV			687			3			0			0			0			0			0			0	690	)
DEC			726			16			0			0			0			0			0			0	742	2
YEAR		8	372			24			0			0			0			0			0			٥	8396	5

FREQUENCY DISTRIBUTION BY PERCEPTILES CONCENTRATIONS
OUSTRIBUTION, PERCENT
70 90 95 PERCENT OF DATA ARITH MEAN FREQUENCY VALID MAX 0.5 95.6 o 0.0 0.0 0.0 0.2 1.0 1.7 2.7 3.5

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION

POLLUTANT - SULPHUR DIOXIDE MONTH - JAN STATION - WC NO 27037 NORTH/GENEVA STREET, ST. CATHARINES BO 24 MEAN HOUR 0 0 0 00000-0000+ 1 2 3 4 5 6 7 B 9 10 0000-00000 0000--0000 0-000-0001 000000-000 0000-0000 000-0-10-0-0 1 0 1 12 13 14 15 16 17 18 19 1 1 1 1 ò ò 22 23 24 25 26 27 28 29 30 1 0 1 1 2 1 0 1 1 3 1 0 1 1 0 1 1 1 2 1 1100-000+ 0-000-0000-ò U 0.6 

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID . 0.5

PERCENTAGE OF DATA UNAVAILABLE . 0.1

<sup>--</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	1838		85											ONT	3 - L	). UI P	AMIS/	WITTI	UN							
	STA	TION -	WC	NO	27037		NORTH/	GENEVA	ST	REET	, st	. CA	THARIN	ES		MO	NTH -	FEB	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	1	2 13	14	15	: 16	17	18	19	20	21	22	23	24	MEAN	
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10	1	0	0	0	0	1	1	1	2	2	2			2	i	i	ĭ	1	,	1	1	1	1	1		1
11	1.15	1	1	1	1		1	1	2	2	2						18			-						
12	0	0	0	0	ò	a	Ó	ò	â	ō	ő			- 1	0		×	0	0	0	U		3	û		3
13	0	ī	1	- 1	1	ĭ	2	ĩ	ĭ	ő	ő		6	ò			- 1	3	U	0	1	1	- 1	3		0
14	3	4	2	1	i	i	- 7		4	·	Ť		0 0	·			,		1	1		2	3	3		1
15	ō	0	ō	o	Ó	÷	1	i	1	- 4	- 1		, ,	3	0	0	0	0	0	0	0	0	0	2		1
16	o	ō	ŏ	ŏ	1		ò	o	ò	ò	ò			0		11750	0	_	****	0	0		• • • •	0		1
17	2	2	ĭ	ŏ	ó	ò	ŏ	ŏ	o	ŏ	••••					0	0	0	0	0	0	0	0	••••		0
18	- 7	ō	ò	ő	ő	ŏ	ŏ	Ö										****	••••	0	0	0	1	1		, .
19	5	Ä	6	ĕ	5	4	4	2	Ž.	4	-			2			1	1	2	3	3	2	2	4		1
20	6	4	9	9	6	6	6	5	7	4	3		4	4	5	4	2	4 2	4 2	4 2	5	4 2	8	4 2		4
21	2	2	-	_	_		_	-						-			•	•	•	4	-	•	4	-		-
22		-	2	2	2	2	3	3	3	4	4		_	2		,	1	1	0	1	1	1	1	1		2
22	1	1	1		1	- 3		1	1	1	1			1			1	1	1	1	1	1	1	1		1
23	1	2	1	- !	1	1		1	2	1	2		4	4	5	6	5	5	4	4	4	3	2	1		3
29	1	*	1	- 1	1	٥	1		1	1	0	(	0	0	5 0 0	0	0	5 0 0	0	0	1	1	1	1		1
25	1		1	1	1		1	1	1	1	1	1	0	0	0	٥	0	0	0	0	0	0	0	0		1
20	0	0	0	0	0	٥	0	0	0	0	1	-	. 1	1	1	1	1	1		2	2 -		1	1		1
22 23 24 25 26 27 28 29	1	1	3	1	1	1	****	1	2	3	2	2	1	1	1	1		0	0	1	0	1	1	1		1
28	1	1	1	2	1	1	1	1	1	1	1	3	5	4	1	0	0	0	0	1	1	3	2	0		1
29	0	0	0	0	4	1	1	1	2	0	••••	••••	1	0	0	0	0	٥	0	0	1	1	0	0		0
MEAN	1	1	1	1	t	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1.	2

PERCENTAGE OF DATA VALID - 95.4

PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPHI	JR DIOX	IDE						U	NITS	. 0.0	1 PA	RTS/MI	LLION	N						
	STA	TION -	WC	NO 2	27037	NO	RTH/GENEVA	STE	REET.	ST.	CATH	ARINES			MON	TH - W	AR	80						
HOUR	1	2	3	4	5	6	7 8	9	10	ij	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	1 0 0 1 2 1 3 2 2 2 2	1 0 1 3 1 4 1 2 2	1 1 0 2 3 1 4 2 1 2	0 0 3 3 0 4 2 1 2	0 0 3 3 0 2 2 2 2 2 2	0 0 3 3 0 2 2 1 2	0 2 0 0 3 3 3 3 2 4 0 1 2 3 1 1 1 1 3 3	2 0 1 3 7 1 2 1 2 3	2 1 1 3 0 1 3 1 2 3	0 0 1 3 1 1 3 1 1 2	0 0 2 4 2 1 2 1 3 2	3 2 4 7 2 2 2 1 3 2	1 3 1 4 2 1 2	3 1 0 1 2 1 2 1	2 1 0 1 2 2 2 1 2 2	2 2 2 2 1 3 1	2005121121	1 0 7 1 2 1 1 3	2 1 0 2 1 3 1 1 2 1	1 1 0 1 1 3 1 1 2 1	20001131211	0 0 0 1 1 2 1 3 2 1	1 0 1 1 3 1 2 2 1	1 1 1 3 2 1 2 1 2 2
11 12 13 14 15 16 17 18 19	1 0 1 2 1 1 4 0 0 0 1	1 0 1 1 1 2 3 0 0 0 1	1 1 1 3 2 0 0 1	0 0 0 2 1 2 2 0 0 1	0 0 0 3 1 1 2 0 0 0 1	0 0 0 4 0 1 1 0 0 0 1	0 1 5 0 0 2 1 0 0 1 2 2 0 0 0 1 1 1	1 1 0 2 0 1 2 1 1	102012	1 0 2 0 1 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 3 1 ***	0 4 1 1 0 1 0 0 3	0 3 2 1 0 1 0 0 2 1	0 5 2 1 0 1 0 0 1	0 2 1 1 0 1 0 0 1	1 1 1 1 1 0 0 0 1	0 1 2 1 1 1 0 1 1	0 0 1 1 2 1 0 1 1	1 0 2 1 1 0 1 1	0 0 1 1 2 1 1 0 1 1	0 0 1 1 4 1 0 1 1	2 1 2 5 0 0 1 1	0 1 1 2 1 0 1 1
21 22 23 24 25 26 27 28 29 30	1031000000	0	1 0 0 0 0 0 0 0 0	1 0 1 0 0 0 0 0	0 0	1 0 1 0 0 0 0 0 0	1 1 0 0 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0	1 0 1 1 0 1 0 0 0	1 0 1 1 0 0 0 0 0	1 1 1 1 1 0 0 0 0	1 1 1 1 1 0 0 0 0 0	1 1 1 1 1 1 1 0 0 0	1 1 1 1 0 0 0 0	1 1 1 2 1 0 0 0 0	1 2 1 0 1 0 0 0	02000	1 1 1 0 0 0 0 0 0 0	1 1 1 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0	0 2 1 1 0 0 0 0 0 0	1 1 1 0 0 0 0 0 0
31 MEAN	0	1	0	1	-	1	0 0	0	0	0	0	0	0	0	0	, n	0	0	0	0	υ 1	U 1	1	1.0

PERCENTAGE OF DATA VALID - 99.1

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	SI	TATION	. wc	NO	2703	7	NORTH	H/GENE	EVA ST	REET,	ST.	CATH	MARINE	s		V.OV	TH -	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	-21	22	23	34	MEAN
1 2 3 4 5	0 1 1 0 0 0 0 0	0 0 1 0 0 0	0 0 1 0 0 0	0 1 0 0 0	0000000	0	0010000	0	0 0	1 1 0 0 0 0	0 1 0 0 0 0	0 1 0 0 0 0 0	0 1 . 0 0 0	0100000000	0 0 0 0	000000	00000000	0000000	000000	000000	000000	00000000	00000	2000000	0000000
7 8 9 10	0	0	0000	0000	0		0	0			0	000	0000	000	000	0	ô	0000	0000	0000	0	0	000	1	0
11 12 13 14 15 16 17 18 19 20	0000000	000000	0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1	0	0	0	0	0 0 0 1 1 1 0	0000			00000	0 0 0	00000					0 0 0 0 0 1 0 0	0 0 0 0 1 1 0 0 0	0000	0 0 0 0 1 0 0	0
21 22 23 24 25 26 27 28 29 30	030000000000000000000000000000000000000	20000000	200000	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	00000	2000000	300000	3 0 0 0 0	3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 0  0 0 0	000000000000000000000000000000000000000		0 0 0 0 1 0	200000000000000000000000000000000000000	200000000000000000000000000000000000000	300000000000000000000000000000000000000	3 0 0 0 0 0 0	200000000	0 0 0 0 0 1	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	0 0 0 0 1 0	000000000000000000000000000000000000000	2 2 0 0 0 0 0 0 1 0
MEAN	0	0	0	0	0	0	0	0	0	0	٥	٥	0	0	0	0	٥	٥.	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 93.2

PERCENTAGE OF DATA INVALID - 6.0

NORTH/GENEVA STREET. ST. CATHARINES

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\*- INDICATES DATA IS UNAVAILABLE

POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 27037

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS . O. O1 PARTS/MILLION

MONTH - MAY 80

15 16 17 18 19 21 22 23 24 MEAN 0000000000 000000000 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 00.00000000 000-0 0000.00.00 0000:00000 00000,00000 00000.00000 00000:00000 000000-000 0 0 0 0 1 -00 000000 00000:00-0 1000-0001 000-000000 0000-00000 

... ...0

PERCENTAGE OF DATA VALID . 95.7

ò 0 0 1

PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE - 0.4

0.1

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

" - " INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . D. DI PARTS/MILLION

	1													100					100						
	STA	TION .	wc	NO	27037	, N	ORT	H/GENI	EVA ST	REET	, ST	. CAT	HARINE	\$		MON	TH	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1 G	17	18	19	20	21	22	23	24 1	MEAN
1	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0		1	1	1	1	2	1	0	2	7	2	1	1.	1	1	1	t
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	o	0	1	2	1	1	1	Ť
4	1	1	1	1	1	1	1	1	1	0	1	1	1	2		2	3	2	1	3	2	2	•	1	1
5	1	8	1	1	0	0	1	1	5		****	1	0	0	0	0	3.	0	0	0	0	0	0	0	ť
6	1	1	5	1	0	0	1	1	2	2	1	1	1	0	1	1	1	1	1	0	ō	0	0	0	1
7	0	0	0	0	0	0	0	0	0	1	1	0	0	- 1	1	0	2	0	0	0	0	1	0	0	0
8	0	0	a	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	••••	0		••••		o	0	0	0	J	0	0	0	0	0	٥	٥	9
12	0	0	0	1	0	1	1	0				0	0	0	0	0	0	0	0	0	0	1	-	1	0
13	1	•	0	0	0	0	0	0	0		*	1.0	0	1	1	1	1	1			1	1	1	2	1
14	1	1	0	0		**** *					3	1	1	0	1	1	1	1	0	0	0	0	0	0	1
15	0	2	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	ō	ō	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0		0		0		0	O	0	o	ō	õ	o	0	0	ø
17	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	o	ō	õ	ō	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	ō	o	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	0	0	0
21	0	0	0	0	0	0	0	٥	0	0	0	0	0	٥	0	0	o	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	o	õ	ō	0	0	1	0
24	3	3	3	0	0	0	0	0	0	3	3	0	1	0	0	0		1	0	ō	ō	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1		1	2	1	0	0	0	1 .		1	0	0	0	1
24 25 26 27	0	0	0	0	0	1	0	1	0	1	1	2	2	3	2	2	٥	0	0	0	0	ō	0	0	1
27	0	0	0	0	0	0	0	0	o	****	0	0	0	ō	ō	0	0	0		ŏ	ō	ō	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	00	ō	ō	0	0	0	o
29	0	0	0	0	0			0	1	0	1	1	o	ō	ō	٥	ō	o	o	ŏ	o	ō	o	o	ō
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	ō	0	0	0	0
MEAN	0	1	0	0	o	٥	0	0	0	0	1	. 0	0	o	1	٥	٥	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 95.6 PERCENTAGE OF DATA INVALID - 3.5

PERCENTAGE OF DATA UNAVAILABLE . 1.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	LLUTA	NT -	SULP	HUR D	OXID								UNIT	s · o	. 01 P.	ARTS/	MILL10	ON						
	S	TATION	- wc	NO.	2703	7	NORTH	/GEN	EVA S	TREET	. st	CAT	HARIN	ES		MOI	NTH -	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 0 1 0 0	000010000	000010000	000010000	0000000000	000000000	0 0 0 0 0 0 0 0 0	0000100000	000010010	008010010	0 1 0	1 0	000100000000000000000000000000000000000	0000000000	0000000000	0	0001001		000000000	000000000	000001000	0 0 1 0 0 0	0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000
11 12 13 14 15 16 17 18 19	000000000	000000000	000000000	000000000	000010000	000000000	0 0 0 0 0 0 0 0 0	000000000	0000000001	00000		00000001	0000000-0	0000000010	000000000	000000000000000000000000000000000000000	00.000000000000000000000000000000000000	O Ú	00000-0000	000000000	000000000	000000000	000000000	000000000	000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 1 1 2 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 6 6 1 0	1 1 0 1 0	0 0 0 1 1 1 1 0 0 0 0	0 1 1 1 0 0	000	1 1 0 1	1 1 0 2	1	1 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	1 1 1 0 1	2 1 1	1 1		0 0 0 0 1	1 1 3 0 1	
31 MEAN	1 0	0	1	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 93.0 PERCENTAGE OF DATA INVALID - 6.3

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- " " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	SI	ATION	. MC	NO	27037		NORTH	/GENE	VA ST	REET.	ST.	CATE	ARINE	S		4:01	· HTM	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3	0 0 0	0	0 0 0	0	0	0	0	0000	0 0 0	0 0 0	0000	0000	0000	0	0 2		0	0	0 2		0	0	0		0
5 6 7 8 9	2	2 1 1 1	2 1 0 0	3 0 0	1	2 1 0 0	2 1 0 1 1	2 1 0 0 0	2 1 1 0 0	1 0 0	1 1 0 0	0 0 0	1 0 0	2 0 1 1 1	2 1 1 1 0	0 0	1	1 1 0	3 1 2 1 1 0	3 0 1 1 0	3 1 1 1 1	2 1 0 1 1	1 1 0 1	1 0 1 0	2 1 1 1 0
11 12 13 14 15 16 17 18 19	1 1 0 0 0 0 0 0 0	2000000	1 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0	1 2 0 0 0 0 0 0 0	0000	1 1 0 0 0 0 1 0 0	1 0 0 0 0 1 0 0 0	1000001100	31000	01000100		200001001	0 0 0 1 1 0 0	1 1 0 0 0 0 0 0	0	1 0	1 1 0 0 0 0 1 0 0	0	100000000000000000000000000000000000000	100000000	. 200001000	: 200001000	110000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 1 2 1 0 0	0 0 0 0 1 2 1 0 0	0000012110	000000000000000000000000000000000000000	0 0 1 2 2 0	00000	0 0 1 1 1 0	0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000	000000000000000000000000000000000000000	0 0 1 2 1 2	2 2 0 0	2 2 2	00003300	000000000000000000000000000000000000000	00023200	10000222000	0 0 0 0 2 2 2 2 0 0	22000	0000	0 0 1 2 2 1
31 MEAN	0	0	0	0		0	7.6	0	1	1 0	1 D	0	0	1	1	0			0	1	1	1	1	0	

PERCENTAGE OF DATA VALID - 93.7 PERCENTAGE OF DATA INVALID - 5.9

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- S	ULPH	JR DIOX	IDE							U	NITS	- 0.	DI PAI	RTS/MI	LLIO	N						
	STA	TION .	wC	NO :	27037		NORTH/0	ENEVA	STE	REET,	ST.	CATH	ARINES	i		MON	r + - s	ΕP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7	011000000	0 1 1 0 0 0 0 0 0	0 1 1 1 0 0 0 0 0	0 1 1 1 0 0 0 0 0	0 1 0 2 0 0 0 0	1 1 0 3 0 0 0 0	0 1 0 4 0 0 0 0 0 0	0 1 0 2 0 0 0 1 0	010100010	1 1 0 1 0 0 0 0	1 1 0 0 0 0 0 0 1	1 0 0 0 0 0 0 1	11000000	1 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1	1 1 0 0 0 0 0 0 1	1 1 0 0 0 0 0 0 1	1 1 0 0 0 0 0 0	1 1 0 . 0 0 0 0 0	1 1 0 0 0 0 0 0	1 0 0 0 0 0 0	1 1 0 0 0 0 0 0	1 1 0 0 0 0 1 0	1 1 0 1 0 0 0 0
10 11 12 13 14 15 16 17 18 19 20	0 0 0 0 1 0 0 1	0 0 0 0 1 0 3 1 0 0 0	0001041000	0 0 0 1 0 4 1 0 0 0	0 0 0 0 3 1 0 0 1	0 0 1 1 0 0 3 1 0 0 1	0 1 0 0 0 3 1 0 0 1	0 0 0 0 1 0 3 1 0 0 1	1 0001021001	00011011001	0 0001001000	0 0 0 0 1 0 1 0 1 0	0 1 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0	0 0 1 0 0 1 0 0 1 0	0 0000010010	0 0 0 0 0 1 0 0 1 0	0 0 0 0 1 1 0 1 1 0	0 0 1 1 0 2 2 0	0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 0 1	0 1 0 0 0 0 0 0	0110000000	0 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	010000.000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 0 0 0 1 0	1 1 0 0 0 0 1 0	1 1 0 0 0 1 0	0 1 0 0 0 0 1 1	0 1 0 0 0 0 0 1	0 1 0 1 0 0 0 1	0 1 0 1 1 0 0 0 0 0	0 1 0 0 0 0 0 0	0000000	0 0 1 0 0 0 0 0 0 0	0000000	0 0 0 1 0 0 0	1 1 0 0 0 0	1 1 0 0 0 0	0001000000	000100000	0 0 0 0 0 0 0	01000000
MEAN	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	٥	0	0	٥	0	0	O	0	0.3

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0 0' PARTS/MILLION

	STATIO	N - WC	NO	27037	3	NORTH/	GENEVA	STE	REET,	SŤ.	CATH	RINES			NON	tH - 0	CT	80						
HOUR	1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 00 00 00 00 00 00 00 00 00 00 00 00 0	0000000	0000000000	0 0 0 0 0 0 0 1	001000000	0 0 0 0 0 0 0 0 0 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 2	0000000	0000010.01	000000000	0 0 0 0 0 0 0 1	0 0 0 0 0 0 1 1	000000000000000000000000000000000000000	0 0 0 1 0 0 1 1	0000000000	00000.0000	0000000000	0000000001	000000000	000000001	000000000	0 0 0 0 0 0 1	0000000001
11 12 13 14 15 16 17 18 19	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0	0000111000	0000110000	0 0 0 0 1 1 0 0 0	0 0 0 0 1 1 0 0 0	1 0 0 0 0 1 1 0 0 0	00000	0 1 0 0 1 0 0	0 1 0 0 0 1 0 0 0 0	0000	0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0	0000-0000	000000	00000000000	0000-0000	000000000	0000100000	00001-0000	00030000	00000000	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	0000000	0000000000	0000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001000000	200000000	•	00.00.00	0000000000	0 0 0 0 0 0 1	000000000	000000000	000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	00000000
31 M <u>e</u> an	0 0	-	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	o a	0	0	0	0	0 0.1

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID . 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - WC NO 27037 NORTH/GENEVA STREET. ST. CATHARINES MONTH - NOV 24 MEAN 2 3 4 5 6 7 8 9 10 00000.0 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 30 0000000-00 000000-000 1:10002000 0:-0000000 00-0000-00 0010000000 0000000000 00-0000000 0 1 1 0 0 0 100100.000 001.000000 400000-000 0.2

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OI PARTS/MILLION

	STA	TION	- WC	NO	27037		NORTH/	GENEVA	ST	REET.	ST.	CATH	ARINE	s		***	ITH -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
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26	1	1	1	1	1	1	1	1	1	2	2	2	- 1	2	2	2	2		2	2	3	4	3	3	2
27	2	1	2	2	2	2	2	2	- 3	2	2	2	,	2	2	3		5	5	4	4	4	3	3	3
28	3	4	3		2	3	3		2	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	3
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31	1	1	1	1	1	1	1	1	1	2	0	0	0	0	0	0	0	0	0	0	Ō	0	0	-	U
MEAN	1	1	1	1	1	0	1	0	0	ĭ	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0.6

PERCENTAGE OF DATA VALID - 96.9 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION - WC	NO 27037 NORTH/GENEVA	STREET. ST. CATHARINE	S	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.6	2	8
FEB	28	1.2	4	9
MAR	31	1.0	3	9
APR	27	0.3	2	6
MAY	30	0.1	1	5
JUN	30	0.3	1	8
JUL	28	0.3	* <b>t</b>	8
AUG	29	0.5	. 2	4
SEP	30	0.3	2	4
OCT	31	0.1	1	5
NOV	30	0.2	1	4
DEC	31	0.6	3	5
45.0	255	0.4	4	9

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 27037

LNITS - 0.01 PARTS/MILLION

NORTH/GENEVA STREET, ST. CATHARINES MONTH 00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL JAN FEB MAR APR MAY o JUN JUL AUG SEP OCT NOV DEC YEAR 

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID MIN 10 CONCENTRATIONS FREQUENCY DISTRIBUTION, PERCENT 50 70 90 95 ARITH MEAN 96.6 0.0 0.0 0.0 0.0 0.9 1.7 2.6 3.4 0.4

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES DRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	TION	. MC	NO	27042		NIAGA	RA FA	ALLS R	D/ONT	ARIO	ST.	THOR	OLD		MON	· HT	JUN	во						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9												- 0A - 0A - 0A - 0A - 0A - 0A	TA UI TA UI TA UI TA UI TA UI	NAVAII NAVAII NAVAII NAVAII NAVAII NAVAII NAVAII NAVAII	LABLE LABLE LABLE LABLE LABLE LABLE LABLE										
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21 22 23 24 25 26 27 28 29 30	1 0 1 3 2 1 1 2 0 0	2 2 1 1 0 0	0 1 1 1 0 0 0 0 0	1 1 0 0 0 0	0 0 0 0 0 0 0	0 1 0 1 0 2 0 0 0	00105045000	0 1 1 2 3 1 22 0 0	0 1 2 3 2 4 0 1 0	0 0 1 2 2 3 1 3 0 2 0	0 0 2 3 2 3 2 2 0 3	1 0 4 3 2 2 5 5 0 3 2 3	1 1 3 4 3 2 1 4 0 3 6	1 1 3 3 7 2 5 0 3 0	1 3 3 4 3 3 0 1 2	1 1 3 5 3 3 3 0 2 1	11352333021	5 3 3 . 0 4 2	1 1 3 4 3 3 1 0 2 2	3 . 4 . 3 . 3 . 1 . 0 . 2	1 1 2 2 2 4 1 0 0 2	1 1 2 2 2 8 0 0 0 2	1 2 2 2 1 1 0 0 2	0 1 2 1 1 3 0 0 2	1 2 2 3 3 14 0
MEAN	1	1	1	2	4	3	3	2	2	2	3	6	4	2	4	5	2	3	3	2	2	4	2	1	2.7

PERCENTAGE OF DATA VALID - 64.9

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 34.9

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

<sup>&</sup>quot;-" INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - C C' PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE NIAGARA FALLS RO/ONTARIO ST. THOROLD STATION - WC NO 27042 24 MEAN HOUR 2 2 3 1 1 2 2 3 2 5 4 17 8 4 10 3 3 4 3 2 9 1 6 15 5 2 3 5 2 5 4 2 0 2 0 1 0 2 0 1 1 2 3 4 5 6 7 8 9 10 4 48 21 4 5 9 15 4 6 5 4 4 9 4 13 6 4 7 3 5 14 1 3 12 0 10 1 4 2 6 3 2 4 5 3 5 5 0 0 1 0 2 3 4 8 4 5 17 3 5 2 0 19 0 2 3 3 5 5 0 0 2 0 2 3 8 4 6 3 8 12 0 2 3 19 4 9 4 2 4 11 0 3 3 12 13 14 15 16 17 18 19 46 3 2 0 0 17 0 3 3 3 2 0 0 1 0 0 3 3 2 0 0 1 0 0 13 28 3 2 0 0 2 17 4 2 1 0 0 2 0 2 5 4 3 2 18 27 0 2 16 3 26 3 2 0 0 139 28 4 1 2 0 0 2 0 1 22 23 24 25 26 27 28 29 30 0 0 1 0 1 2 1 98 9 1 12 2 1 3 30322420. 0 0 3 9 3 2 2 1 0 3 1 79 1 1 6 2 0 0 74 2042-620 00---0-0000 00 - 50 -40000-0000 00000-0000 0 2 a O 

PERCENTAGE OF DATA VALID - 99.5

MEAN

PERCENTAGE OF DATA INVALID . 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.

8 6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE NIAGARA FALLS RD/ONTARIO ST. THOROLD STATION - WC NO 27042 24 MEAN . 12 HOUR 15 1 0 0 0 0 0 2 3 2 2 0 2 3 4 5 6 7 8 9 00-02222 00143. 0 2 4 3 3 14 2 33 38 1 43 43 1 5 4 3 56 2 96 18 2 2 7 2 3 13 2 2 2 16 2 3 0 79 1 2 8 3 2 2 0 0 2 84 3 2 2 0 21 6 2 13 13 2 2 3 1 ? 24 2 13 5 2 3 4 42 1 2 3 90 1 1 5 4 2 2 0 12 13 14 15 16 17 18 19 20 5 2 1 38 22 2 2 2 1 2 7 1 14 4 1 3 2 12 1 22 6 1 2 3 39 2 1 7 6 1 1 2 1644 2 2 2 0 1 INVALID O O O 22 23 24 25 26 27 29 30 000.000. 0-0 0 1 0 1 0 3 2 0 2 0 4.0 MEAN

PERCENTAGE OF DATA VALID - 86.6

PERCENTAGE OF DATA INVALID - 13.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

				2000		100								(A.1) - (A.1)											
	\$1	ATION	- WC	NO	2704	2	NIAG	ARA F	ALLS !	RD/ON	TARIO	ST.	THORG	DLD	(40	MO	NTH -	SEP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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18	2	2	2	2	1	1	4	4	3	2	1	2	- 1	1	- 1	2	2	2	2	- 7	ĩ	1	- î	ō	2
19	0	0	0	0	0	0	0	1	- 1	17	16	13	14	5	5	4		****							5
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21	3	3	3	2	2	2	2	2	2	2	3	- 3	4	4	4	••••				••••	3	3	3	3	3
22	3	3	3	3	3	3	3	3	3	2	2	2	0	0	0	0			0	1	5	3	2	2	2
22 23 24 25 26 27 28 29 30	2	2	8	11	6	24	14	11	4	3	4	0	2	2	****	3	3	3	2	2	1	2	2	2	5
24	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	2	2	2	2	2	3	2	2	1
25	1	1	1	1	1	1	1	. 3	8	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	1	1	1	1	1	1	1	1	1		0	0	1	1	1	1	1	1	1	1	0	0	0	0	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
28	0	3	25	29	33	65 0	0 35	89	16	16	16	4	2	1	1	1	2	2	2	2	0	0	0	0	14
29	0	0	0	0	0	0	1	0	1	0	1	1	1	- 1	2	5	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	1	1		2	4	3	3	3	3	3	3	3	3	3	3	3	3	3	2
MEAN	1	1	2	2	2	5	5	7	3	4	5	5	4	3	3	3	3	3	2	3	2	4	2	2	3.1

PERCENTAGE OF DATA VALID - 91.1 PERCENTAGE OF DATA INVALID - 8.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	NT -	SULPH	IUR D	OXID	E							UNITS	- 0	01 PA	RTS/	MILLIC	ON.						
	ST	ATION	- wc	NO	2704	2	NIAGA	RA FA	LLS	RD/ON1	ARIO	ŞT.	THOR	OLD		MON	ITH -	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	2 4 0 2 1 0 1 0 28 0	24 0 2 1 0 1 0 5 0	2 4 0 2 1 0 1 0 3 0	2 17 0 2 1 0 2 0 2	2602101020	2 3 1 2 1 0 1 1 2 0	2 3 1 2 1 0 2 0 0 0	2 3 1 2 1 0 2 0 0 1	2 3 1 2 1 0 7 0 0 2	11 0 0	4 3 1 2 1 0 10 0 0	4 3 1 2 1 0	2000	2 0 0 7 1 1 0	3 5 1 2 1 1 2 2 1 1	3 6 1 2 1 1 2 2 2 2 2	4 17 2 2 1 0 2 2 1	4 6 2 2 1 0 1 2 0 0	1,00200	3322100200		5 2 2 2 0 0 0 1 5 0	5 2 2 2 1 0 0 27 0	4 2 2 2 1 0 0 20 0	3 5 1 2 1 0 2 3 2
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17	1	1	1	2	3	4	4	4	4	••••	• • • •	••••	••••	1	1	2	2 2	2	3	2	2	1	2	2	2
18	1	1	1	1	0	1	0	0	0	0	0	2	1	1	1	2	2	2 2 2	2 2 2	2	2 2	2	2 2	1 2	- 1
20	1	2	5	5	2	2	2	13	38		27	5	2	2	2	2	2	2	2	3	3	3	3	3	7
21 22 23 24 25 26 27 28 29 30	1	A su	ी	1	j	1	1	1	1	'n	o	•	DATA DATA DATA DATA DATA DATA DATA	I NVALI	0 -	****	••••	••••	••••	••••	••••	****	••••	••••	••••
MEAN	2	1	1	2	1	1	1	2	4	3	3	1	1	2	2	2	3	2	2	2	2	2	3	3	2.0

PERCENTAGE OF DATA VALID - 51.7 PERCENTAGE OF DATA INVALID - 48.0

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLICH

																		5 % 5							
	S	TATIO		C NO	27042	2	NIAG	ARA F	ALLS	RD/ON	DIRAT	ST.	THOR	OLD		MON	тн -	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 (	REAN
1 2 3 4	••••	••••		••••			••••				••••	:	DATA DATA ATAO	INVA	L10 -	i	٥	0		0	0	٥	0		
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11	6	16	7	6	14	11	10	15	16	13	1.1	9	7	14	12722	13	17	7			2.00		:5	15	
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21	1	2	1	1	0	0	0	0	0	0	0	••••	••••	0	0	0	0	٥	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0
24	0	ő	0	0	0	3	3	0	2	2	1	4	4	3	3	2	0	0	0	0	0	2	2	1	2
25	26	18	28	28	5	11	11	3	0	0	0	0	0	0	0	1	7	54	10	59	11	81	74	18	13
26	1	0		28	õ	0				0	0	0	0	0	0	6	9	19	63	17	21	23	85	5	16
27		0	0	0	ö		0	٥	0	_	****	0	0	0	10	54	26	2	1	0	0	0	0	0	4
28	0					3	3	1	0	0	-		1	0	1	1	1	0	0	0	٥	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	٥	٥	0	0	0	0	0	0
30	ŭ	0	0	0	0	٥	0	0	0	0	0	٥	0	0	0	٥	0	0	0	٥	0	0	0	0	0
30	0	0	0	0	0	٥	0	0	0	0	0	٥	0	0	0	0	٥	0	0	٥	0	0	0	0	U
MEAN	4	3	2	2	2	2	2	1	3	4	4	2	3	2	3	4	3	4	5	4	4	7	8	3	3.4

PERCENTAGE OF DATA VALID - 86.4 PERCENTAGE OF DATA INVALID - 13.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	5	TATIO	N - W	C NO	2704	2	NIAG	ARA F	ALLS	RD/ON	TARIO	ST.	THOR	סום		MON	HTH -	DEC	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	33	23	24	MEAN
1	0	0	0	0	0	٥	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	q	
3	19	1	5	2	13	2	2	42		10	9	3	0	0		0	٥	0	0	11	0	0	0	0	0
4	1	ó	ŏ	ō	.0	ô	ô	70			ő		****				* * * *		****		4	2	2		
5	****			****						****														C	
6	0	2	4	1	3	1	0	0		4	6	- 1	3	1	0	0	0	. 0	0	0	0	0	0	Č	1
7	0	0	0	0	0	0	0	٥	0		0	0	0	0	0	0	0	0	0	0	0	0	0	C	
8	0	. 0	. 0	0	0	0	000	0	0	0	0	o	. 0	••••		****	٥	0	0	3	1	0	0	C	0
	0 0 0	10	0 13 0	0 19 5	18	2	0	٥	1		0	0	0	0	٥	٥	0	0000	0000	0 3 2	0	1	1	1	3
			0	•	4	٥	U	0	U	U	U	U	U	O	0	O	O	0	0	0	٥	2	15	10	1
11	17	31	26	16	2	0	0	0	٥	0	0	0	0	0	1	0	0	0	0	0	9	2	1	a	ā
12	0	0	0	16 0	0	ō	0	0	0	ō	ō	0	õ	ŏ		o	0	ŏ	ő	ŏ		ō		Š	- 3
13	0		0	0	0	000	3	9	4	4	4	10	16	25	1.1	25 2		0	0 0 0	0000	000	0	0	0	5
14	0	0	0	0	٥	0	0	0		0	0	3		17	3	2	0	0	0		0	0	0	0	2
15	0	0	0	0	0	0	0	0	0		0	0	٥	0			1	1	0	0	0	0	0	0	0
17	2	0	0	17	10	15	39	- 0	0	0	0	0	0	0	0	0	1	- 1	1	2	2	2	3	8	1
18		****					7.9	31					0	4	3	0	0	0	0	****	••••			****	8
19	0	0	0	0	0	0	3	2	0	1	14	9	10			ő	ŏ	0	ő	0	0	0	0	0	
20	0	0	ŏ	ŏ	ō	ō	ŏ	ō	ŏ		o	ŏ	o	0	0	õ	ŏ	ŏ	ŏ	ŏ	Ö	ŏ	ŏ	ŏ	
21	0	0	0	0	0	٥	0	0			0	0	٥	0	0	0	00	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	٥	0	0		- 1	
24	ò	0000	0	0	- 4	1	0	2	2		0	0	0	0	0	0	0	0	0	0	0	0	0 0 0 2	0	
25	ŏ	ŏ		ò	ò	0	ŏ	ŏ	ŏ		ŏ	ő	0	ŏ	0	0	o	0	0	0	0	0	0	0	0
25 26 27	0	õ	0000	ō	Ĩ	2	ĭ	ž	1	2	2	2	ĭ	1	1	1	ĭ	ĭ	Ö	0	·	0	0	0	·
27	0	0	ō	0	0	ō	2	3	3	3	4	3	2	- 1	ò	2	ä	3	3	2	,	š	2	ŏ	,
28		0	0	0	1	2	3	2	2	2	2	4	3	4	5	7	6	5	3	5	4	3	4	š	ŝ
29	3	11	15	5	3			****			2	4	4	3	3	3	2	1	1	ō	0	ō	0	ō	3
30	1	1	1	1	1	2	1	1	0	1	,	1	1	1	0	1	1	1	0	0	0	0	٥	0	. 1
31	0	0	0	0	٥	0	16	6	3	2	1	••••	1	0	0	0	0	0	0	0	0	0	0	0	1
MEAN	2	2	2	2	2	1	3	4	1	1	2	2	2	2	1	2	1	1	0	1	1	1	1	1	1.5

PERCENTAGE OF DATA VALID - 90.1 PERCENTAGE OF DATA INVALID - 9.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1580

MIN

81.5

10

0.0

30

0.0

0.6

STATION - WC NO 27042 NIAGARA FALLS RO/ONTARIO ST. THOROLD

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	se me econome		SC VALUE II NACOMILIANIETTO		
MONTH	NO OF	DAYS AVERAGE	CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		<u>.</u>	DATA UNAVAIL	ABLE	
FEB	140		DATA UNAVAIL	ABLE	
MAR			DATA UNAVAIL	ABLE	
APR			DATA UNAVAIL	ABEE	
MAY			DATA UNAVAIL	ABLE	
JUN	19	2.	. 7	14	62
JUL	31	4.	. 8	18	139
AUG	26	4.	.0	21	96
SEP	27	3.	. 1	14	89
OCT	15	i 2.	. 0	7	38
NOV	26	3.	. 4	16	85
DEC	26	r	. 5	8	42
YEAR	172	. 3.	. 2	21	139

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - WC NO 27042 NIAGARA FALLS RD/ONTARIO ST. THOROLD MONTH GO TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL JAN DATA UNAVAILABLE FEB DATA UNAVAILABLE MAR DATA UNAVAILABLE APR DATA UNAVAILABLE MAY DATA UNAVAILABLE JUN 7 442 467 JUL 628 41 19 19 740 13 12 AUG 578 20 15 644 SEP 585 16 29 10 656 368 0 0 385 NOV 526 37 28 622 DEC 625 19 10 9 2 670 1 YEAR 3752 40 FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA VALID

5.3

ARITH

MEAN

3.2

MAX

139

98

26.7

99

POLLUTANT - SULPHUR DIOXIDE

#### UNITS - 0.01 PARTS/MILLION

		STAT	ION	- WC	NO	27043	1	MCADAN	PARK	CEN	TRE/D	AVIS	ST.	THORO	LD		NON	TH -	JAN	80							
	HOUR	t	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
	1 2 3 4 5 6 7 8 9	0000102000	0000102000	0000101000	0000101000	000010000	0000-0-000	00000	100000	1000001	301102	3021002	2002	1 0 1 0 1 0 0	1 1 0 1 0 0 1 2	1 1 2 1 0 1 0 1 0 3	1 1 9 1 0 2 0 1 0 2	0 2 5 1 0 1 0 0	0 2 5 2 0 1 0 2 0 0	0 8 4 2 0 1 0 0 0 1	0 7 1 2 0 2 0 0 0 1	0 15 0 1 0 2 0 1 0 1	0 1 0 2 0 0 0 1	0 - 0 - 0 - 0 0 0 2	0001020102	ner :	0 2 1 1 0 1 1 0 0 1 1
	11 12 13 14 15 16 17 18	202000-000	2021001000	2022000000	1012000000	1000000000	1001000100	10001000	0000000000	0010000100	0 0 1 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 3	0000010001	000000004	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000100000	00030-0000	0 0 3 0 2 0 0	000102000	000010000	0 1 2 0 0 0	0 0 0 0 0 0 0 0	0000000000	e.	0001010001
	21 22 23 24 25 26 27 28 29	0000000000	0000000000	0000000000	00000			00000	00000		0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 5	0 0 0 0 0 1 5	0 0 0 0 1 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03000	0-00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 0 0 1 0 0 0 2 0	3200100000	2 1 0 0 1 0 0 0 1 2	1 0 0 0 1 0 0 1 0	1 0 0 1 0 0 0 0		0100.00003
	31	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	3	.1	1	1	2	0	0	c	0	_	1
1	EAN	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	٥	٥.	5

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	r - s	ULPH	UR 010	XIDE							ı	JNITS	- 0.0	DI PA	RTS/M	LLIO	N						
	STA	TION	- WC	NO .	27043	M	CADAM	PARK	CENT	RE/DA	VIS	ST.	THOROI	.0		MON	гн - ј	FEB	80						
HOUR	Ť	2	3	4	5	6	7	.8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8	010120246	010020132	1 25 0 20 1 0 0	260600001	9 0 0 0 1 0 0 1	3 8 0 0 0 1 0 0 3	2 10 0 0 0 3 0 0 2	24 0 14 0 2 0 1 1	4 13 0 6 0 0 1	360800031	2 7 0 6 0 0 0 6 0	7 5 0 5 0 0 2 3 5	7 2 0 0 2 0 6 2 10	8 1 0 0 2 0 5 2 4	300020412	100020512	100010420	1000201100	200010130	200010110	1 2 0 1 0 0 3 0 0	3 0 8 1 0 6 0 0	11 3 6 1 1 6 8	9 1 0 1 5 11 2 0	3 1 0 2 2 2 2
10 11 12 13 14 15 16 17 18 19	1 0 0 2 1 0 2 0 3 1	1 003001042	1 0 0 0 3 0 0 0 1 4 4	0 1012000145	0 1 0 1 1 0 0 0 0 0 3 4	0 0 0 2 1 0 0 0 1 2 4	0 1 0 0 0 2 2	0 1001000072	1 2011000033	1 1 0 2 2 0 0 0 0 2 3	2 20 2 20 00 00 1 2	2022000044	3 1 0 2 0 0 0 0 5 1	1 0 1 0 0 1 0 0 5 1	0 1 0 1 0 1 5 1	0 0 0 2 0 1 3 0 2 4 1	0 0 0 3 0 0 1 4 2	0 0 0 2 0 0 0 1 9 0 0 4 1	0 0 0 1 0 0 3 0 0 4 1	0 0 0 0 0 0 0 0 0 4 1	0 0 0 1 0 0 3 0 0 3 0	0.0000000000000000000000000000000000000	0 2 0 0 3 1 0 3 1	000000000	101020032
21 22 23 24 25 26 27 28 29	1 1 0 1 0 0 2 1 3	1 0 0 0 2 2 3 1	1 1 0 1 0 0 1 1 3 3	1 1 0 0 0 0 1 1 5 5	1 1 0 0 2 0 2 8 6	0 0 0 2 2 6 6	1 2 0 0 1 1 2 3 5 1	4 20 0 3 3 2 2 7 2	4 1 1 0 1 8 2 2 8	4 1 2 0 4 5 2 2 5 2	5 1 2 0 2 7 2 3 4 2	3 3 3	359	2 1 2 0 1 2 3 5 5 2	1 1 2 0 1 2 2 4 2 1	1 2 0 1 2 1 2 2	1 1 3 0 1 3 1 2 2 2	113012222	2 1 3 0 1 2 2 2 2 1	0 0 2 0 1 2 2 6 2 1	002102183	101102268	1 0 1 2 0 2 1 4 4	1 0 1 1 0 2 1 3 4	2 1 1 0 1 2 2 3 4

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLICN

	100,000					romanim.																			
	STA	TION	wc.	NO.	27043	,	MCADAN	PARK	CENT	RE/DA	AVIS	ST.	CROHT	LD		MON	th + 1	CAR	60						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	4 3 0 2 0 0 0 0 0	4 6 0 2 0 0 0 0 0 1	4 1 0 2 1 0 0 1 0 0	3102000100	3002102100	3 0 1 2 1 0 2 1 0 0	3 0 3 2 1 0 2 1 0 1	3 0 3 2 1 0 0 1 0 1	12 2 2 1 0 0 0 1 1	6 2 1 2 2 0 1 0 1 1	12 2 1 3 0 0 1 0 0 1	501	8121020021	17 1 2 1 0 0 1 0	0 0 0	16 1 0 1	9 2 0 1 0 0 1 0 1 1	11 20 1 00 00 0 1 0	7 20 1000000	4 2 1 1 0 0 0 11 0 0	5111000400	13010000400	7100001300	13 1 1 0 0 0 1 1 0 0	8 1 1 2 0 0 1 1 0
1.1	0004001002	32001	0 0 3 0 0 0 0 1	0.121020001	2 1 2 0 0 0 1	0 4 1 2 3 1 0 0 0 2	0 14 1 1 2 2 1 0 0 0 1	0 9 1 0 2 3 2 0 1 1	0 11 0 0 3 3 1 0 2 2	0 6 1 0 2 3 1 0 2 3	07102332022	0 0 1 2 0 0 2 2	310022	7 2 0 3 1 0	0.500350003	0 5 2 0 3 1 0 0 1 2	320320002	3 2 0 0 0 2	3 0 2 1 0 0 1	1230200010	1 2 0 0 0 0 0 1 0	30001	0 2 3 1 0 1 0 0 1 2	0 1 2 0 0 2 3	2 1 2 2 0 0 1 2
21 22 23 24 25 26 27 28 29	2 0 4 1 0 0 1 3 1	1 0 3 2 8 0 1 2 1	1 0 1 1 0 1 2 1 1	1 2 0 0 2 1 1	1 1 2 1 9 1 0 2 1 0	1 1 1 4 2 0 3 1 0	1 2 1 6 3 0 3 1 0	1 16 2 2 2 31 0 1 0 0	1 19 2 1 2 29 0 5	1 5 2 1 1 36 1 2	9 1 3 1 1	0 4 2 2 2 4 2 2 1 1	0 5 1 2 2 3 2 2 1 1	28112311211	1 18 2 1 2 2 1 2	1 13 3 1 2 1 3 2	1 18 3 2 1 1 3 2 0	19 2 1 1 2 2 0 2	2 49 2 1 0 1 2 1 1 2	0 40 2 0 0 2 2 1 1 1 1	0 30 3 1 0 2 1	1 4 2 0 0 1 1 1 1 1 1 1 1 1	520012002	0 5 2 1 0 1 2 0 0 1	1 1 1 2 1 2 6 1 2 1
31 MEAN	1	1	1	1	1	1	1	3	3	3	2	2	. 0	2	2	2	2	2	3	2	2	1	,	*	1.8
																							ner So		

PERCENTAGE OF DATA VALID - 99.1 PERCENTAGE OF DATA INVALID - 0.9 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . . -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTA	NT -	SULPH	IUR DI	OXIDE								UNITS	- 0.	OI PAI	RTS/MI	LLLIO	N						
	ST	ATION	4 - W	NO.	27043		MCADA	M PAR	CEN	TRE/C	AVIS	ST.	THORO	LD		MON	TH - 1	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	1 26 1 0 0 1	0 2 3 1 0 0 0 0 0 0 0 0	0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001000001	0 0 0 0 0 0 0	000000000	0000000	10000-0000	1 1 0 0 0 1 0 0 0	2 2 2 0 0 0 1 0 0 2	1 3 1 0 0 1 1 0	1 5 2 0 0 1 1 0 : 2	1 3 1 0 0 0 1 0	0 2 1 0 0 0 0 0 0	1 1 0 0 0 1 0 0 2	1 1 0 0 1 1 0 0 0	1 1 0 1 0 1 0 4 2	0 2 1 0 4 5 1 0 0 1	0 2 2 1 0 0 1	0 1 0 1 1 1 0 3 2	0 1 2 0 0 1 1 0 1 0	0 1 4 1 0 0 0 0 0 0	17 1 0 1 0 0 2 3	24 1 0 0 0 0 0	1 4 2 0 0 0 1 1 0 0 1 1
11 12 13 14 15 16 17 18 19	0 2 1 1 0 5 1 1 1	2 1 4 1 2 1 3 0 2 1	0 1 3 1 6 4 2	1 3 1 1 0 2 2 1 1 2	3 3 2 2 30 2 3 3	1 3 1 2 1 7 4 2 1 2	2 5 3 1 0 12 1 2 1 2 1 2	1 2 0 20 2 2 3 2	3 1 1 3 6 4 2 2 3	1 4 3 1 0 30 2 3 3 3 3	0 1 1 0 5 2 5 4 12	6 2 1 3 0 4 3 4 3 3	3 3 3 1 0 2 0 3 1 2	1 1 0 3 0 2 1 1 2	4 22 2 1 7 0 5 3	2 4 1 18 3 2 4 4	1 1 1 1 1 1 2 5 3	10 1 123555	2 3 3 2 15 1 5 4	5 2 1 1 4 1 5 5 29	1 4 1 1 4 2 3 3 3 37	3 1 1 4 3 2 3 3 3	1 3 1 10 2 4 5 18	1 3 3 1 10 4 3 3 35	2 2 3 2 1 9 2 3 3 4 9
21 22 23 24 25 26 27 28 29	21 1 5 2 1 2	15 0 1 8 1	0 3 1 2 0 2	2 0 2 1 1 1 1 2	7 1 2 4 2 1 2	4 0 3 1 0 1 3	2 1 2 1 0 2 2	4 2 3 3 2 3 2	2 2 2 4 2 2	2 0 2 2 1 3 2	2 0 4 1 1 7 2	3 3 2 1 3 2		1 0 1 0 2 2 2 1 ! NVAL		10001	3 1 5 1 2 3 1	3 5 4 2 3 1	2 3 4 6 1 3 0	3 2 4 2 3 3 1	2 2 3 3 1 3 1	25 1 5 1 1 2	7 0 4 1 3 3	7 0 4 3 1 3 3	7 1 3 2 1 2 2
30 Mean				1			2	2	2	3	2	2	1	1	3	2	2	3	3	3	3	3	3	4	2.3

PERCENTAGE OF DATA VALID - 90.8

PERCENTAGE OF DATA INVALID - 9.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . D.D1 PARTS/MILLION

	10000					10000																			
	STA	TION	- WC	NO	27043		MCADAM	PARK	CEN	TRE/D	AVIS	ST.	THORO	LD		MON	tH - 1	MAY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	ÆAN
1 2 3 4 5 6	1 1 20 2	1 1 18 2	1 1 6 2 1	1 1 6 2 1	1 1 3 2	1 1 2 2	1 1 2 2 1	1 1 6 2 1	5 1 1 11 2	1 1 2 2 0	13	û 1 1 2	1 1 2 4 0	2 2 2 2 2 4	2 2 2 0	2 2 2	252260	3 5 2 3 0 0	2 2 9 3 2 1	2 14 2 0 0	2 13 2 0	10 2 2 0 0	15 2 3 0	1 46 2 2 0	2 1 6 4 2 1
7 8 9	0000	0	0	0000	0	0000	0						0	000	0	0 0 0	0000	0000	0000	0000	0	0000	0	000	0
11 12 13 14 15 16 17 18 19	0000040-00	000000000	00000	000001000	000000000	000001000	000000000000000000000000000000000000000	0005112000	0 0 0 3 4 2 2 0 0 0	0001121000	0001110000	3 1 1 0 0 0 0	0 1 0 3 2 1 0 0 0 1	0002210000	00000	100001000	1 2 0 2 0 1 0 1 0	1008011010	0 1 0 1 1 1 0	4002001111	0005001103	0 0 1 0 0 1 1 0 3	000000000000000000000000000000000000000	000001100	0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 3 4 0 3 2 1 0	0 0 0 2 3 1 4 1 0 0	0 0 0 1 2 1 3 4 0 0	0000	0 0 0 1 1 2 0 1 1	00001	0 0 0 0 1 2 2 1 1 2	0 0 0 0 1 2 1 2 3	0 0 0 1 0 0 4 1 3 4	0 0 4 0 0 2 1	0 0 1 0 1 2 1 5 1	0 3 3 0 4 0	0005040120	0 0 0 3 0 2 1 3 0	0 0 0 2 0 5 1 1 2 0	0 1 0 2 0 6 1 1 2 0	070309110	0201073110	0002192100	10221000	000257011	0 0 0 2 5 23 0 1	0 0 0 8 1 10 0 0 1 1	0 0 16 1 4 4 0	0 0 3 1 5 2 1
31 MEAN	1	0	0	0	1	0	1	1	2	1	1	- 1	1	1	1	1	ì	1	4 4	1	2	2	2	3	1.2

PERCENTAGE OF DATA VALID - 98.5 PERCENTAGE OF DATA INVALID - 1.5 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

STATION - WC NO 27043 MCADAM PARK CENTRE/D HOUR 1 2 3 4 5 6 7 8 9 10  1 1 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0	0 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN	
1 1 0 0 0 0 0 0 0		
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0	
19 20 21 22	- CATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE CATA UNAVAILABLE -	
23 24 25 26 27 28 29 30	- DATA UNAVAILABLE -	

PERCENTAGE OF DATA VALID - 25.0 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 74.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY NEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC	NO 27043 MCADAM PAR	K CENTRE/DAVIS ST. THORE	310	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	30	0.5	3	24
FEB	29	1.7	5	25
MAR	31	1.8	11	49
APR	27	2.3	9	37
MAY	31	1.2	6	46
JUN	7	1.6	7	37
YEAR	155	1,5	11	49

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - D.DI PARTS/MILLION

STATION - WC	NO 27043	MCADAM	PARK CENT	RE/DAVIS ST	. THOROI	LO			
MONTH OO	TO 05 06	TO 10 11	TO 15 16	TO 20 21	10 25 26	6 TO 39 40	TO 49 50	SOVER	TOTAL
JAN	722	3	1	0	2	0	o	٥	726
FEB	650	37	5	2	1	o	0	0	695
MAR	695	19	10	7	0	4	2	٥	737
APR	614	16	8	5	4	7	0	0	654
MAY	707	15	5	4	1	0	1	o	733
JUN	169	6	3	1	0	1	0	0	180
YEAR	3557	96	32	19	8	12	3	0	3727

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID MIN 10 30 50 70 90 95 98 99 MAX MEAN

85.3 0 0.0 0.0 0.2 1.0 2.8 4.7 10.0 15.4 49 1.5

UNITS - 0.01 PARTS/MILLION

	ST	ATION	- wc	NO	27046		PUBLIC	WORKS	200N	4 \$	BEAVE	ROAM	RD TH	OROLD		NON'	тн - ,	JAN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 1 5 0 3 0	000090000	0000212000	000601000	0000501100	000000000000000000000000000000000000000	000000000	000000000	0000000000	0001000000	0 0 3 0 1 1 1 0 1	10 0 1	0 0 16 0 2 0 1 1	0 0 0 2 0 2 0 1 1 1	0 0 0 1 0 2 0 1 0 2	0 0 3 1 0 3 0 1 0 2	0041010102	0 0 4 1 0 1 0 1 0 1	0 0 5 1 0 0 0 0 1	003200001	0 0 1 3 0 1 0 0 0 1	1001000	0 0 7 10 0 0 0 0 1	0 0 1 3 0 1	0 1 3 1 1 0 0
11 12 13 14 15 16 17 18 19		00000000	000-00-000	0 0 0 0 0 0	000.00-000	000.011000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 . 0 5 1 0 0 0	0 0 1 0 0 0 0	00080002	0 0 1 7 0 0	0 0 1 2 0 0 0 2	0 0 - 0 0 0 0 0 2	0 0 1 0 0 0 1	00.000001	00.0050000	00.0050000	00.0440000	0 0 0 5 7 0 0 0 0	00.0540000	00.0240000	00000	1 3 1 0 0 0
21 22 23 24 25 26 27 28 29 30	0000	000011	0 1 0 0 0 1 1	0 2 0	0 1 0 - 1 0 0 0 1 1	0 1 0 0 0 1 1	0 0 0 0 1 1	000011	000000011	0 0 0 0 0 1 2	0 0 0 0 1 5	1 0 0 0 1 9	0 0 0 1 1 0 0 0 2 4	0 0 0 1 2 0 0 0 3 5	0 1 6 0 0 0 2 6	0 1 0 1 5 0 1 0 1 7	0 1 0 1 4 0 0 0 1 3	0 1 0 0 0 0 1 1	0 1 0 0 0 0 0 1 1	0 1 0 0 0 0 1 2	0 1 0 0 0 0 0 0 1 2	0101000027	0101000013	0 0 0 1 2	0 1 0 1 0 0 0 0 1 3
31 Mean	1	1	0	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 94.4 PERCENTAGE OF DATA INVALID - 1.2 PERCENTAGE OF DATA UNAVAILABLE - 4.4

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE								UNITS	- 0.0	DI PAR	RTS/MI	LLIO	N:						
	STA	TION -	WC	NO	27046		PUBLIC	WORKS	200M	s	BEAVE	RDAM	RD TH	OROLD		MON	ГН - F	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9 1 0 1 1 1 2 1 3 1 4 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2610410360	4 4 1 1 7 1 0 1 6 1 0 0	5 7 1 2 7 1 0 0 2 1 0	8912120020	7 11 0 1 1 4 0 0 3 0 0	8610020020	8 7 0 0 4 0 0 1 0	10 4 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 4 0 3 0 5 0 0 1 1	9203121312	4 1 3 1 1 3 6 4 4 3 3	- DA - DA - DA - DA	TA UNITA UNITA UNITA UNITA UNITA UNITA UNITA UNITA UNI	4 2 1 1 1 1 3 2 4 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	BLE - BLE - BLE - BLE - BLE -		2 1 0 1 2 0 5 2 2 1	2 1 0 1 2 0 1 1 1 0 0	2000110011	10001	2101200000	1002200000	10 3 1 0 9 5 0 0 -	8 0 4 0 0 7 13 0 0	5 3 0 2 2 2 1 2 2 2 1
20 21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 2	. 000003	. 0000003	. 0000004	0 0 0 1 0 2 4	0001085	00001026	0000	00006035	.0014044	00013043	- DA	TA UNI	AVAILA VAILA 1 0 1 1 1 8 2	BLE -		05000021	0 1 0 0 0 0 3 1	0 1 0 0 0 0 3 1 1	0 0 0 0 7 0	0 0 0 1 0 8 0	0 0 0 1 0 6 5	0 0 0 0 1 0 10 2	00001063	1 0 0 1 0 4 3
1,250,000	W	-	-	-		0.00		-		-		3	3	-	,		36.		1	1	1	2	2	2	1.7

PERCENTAGE OF DATA VALID - 61.1 . PERCENTAGE OF DATA INVALID - 0.6 PERCENTAGE OF DATA UNAVAILABLE - 38.4

- \* . \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR BAILY MEAN IN ONE DAY .

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION	- w0	NO.	27046	3	PUBLI	C WORK	S 20	OM S	BEAVE	RDAM	90 TH	CROLD		NON	тн -	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	EAN
1 2 3 4 5 6 7 8	2 3 0 2 1 0 0 0 0	140220000	3 2 0 0 0	1 0 3 1 0 0 0	0 1 0 3 0 0 1 0 0	0 1 0 3 0 0 1 0 0	0 0 1 4 0 0 0 0	0 0 1 3 0 0 0 0 0	3 0 0 0 0 0	1 1 4 0 1 1 0 0	3 1 2 4 0 1	3 3 6 0 1 2	5 1 3 4 0 2 1 0	7 1 2 3 0 1 2 0	5 1 2 3 0 1 1 0 2	6 2 3 0 1 1 0 2	6 2 1 2 0 1 1 0 1	8 2 1 2 0 1	2 2 2 0 1 0 0	3 1 2 1 0 0 0 0 1	4 1 1 0 0 0 0 0 0	7 0 1 1 0 0 0 0 1	501100001	6 0 2 1 0 0 0 1	1 1 3 0 0 0 1
10	1	ĭ	1	1	ŏ	1	1	1	1	1	ì	1	2	i	1	ī	4	o	,	i	1	í	1	î	į
11 12 13 14 15 16 17 18 19	1 1 0 1 1 2 0 0	30112001	1 7 0 0 8 1 0	11 1 0 0 1	1 2 3 0 4 1 0 0	1 3 4 0 0 7 1 0 0 1	1 4 7 0 0 0 1 1 2 0 0 1	1 5 8 0 1 12 2 0	1 8 5 0 1 6 1 0 0 3	550161013	3 3 0 1 6 1 0	1 1 1 3 0 0 2 2	3	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3000120022	1 3001 2	1 20 1 1 5 0 0 1 2	50001	1 20 1 1 0 0 1 1	1 1 0 0 1 0 0 1 0	1 0 1 0 0 1 0	0 1 0 0 0 0 2 1	1 2 0 1 1 2 0 0 1 7	1 20 1 1 20021	1 2 2 1 1 4 1 0 1 3
21 22 23 24 25 26 27 28	0 0 2 1 0 0	001000	0 0 1 0 0 0	00000	0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 4	0 0 1 0 0 5	0 0 1 1 0 5	0 0 1 1 0 4	0 0 1 1 2 2	0 1 1 1 2 DATA	1 0 1 0 2 2 2 I NVALI		0 1 2 0 2 1	0 4 2 0 2 1	0 5 1 0 1 0	0 6 1 0 1	7 1000	0 10 1 0 1	0 8 2 0 0 0		0 0 0	0 2 1 0 1
28 29 30		0			0		0		0	1	1	1	ò	6	0	0	0	ò	3	3	0	1	1	1	0
30	ī	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	3	1	ŧ	1
31	1	1	2	1	1	2	1	1	1	1	****	7	2		2	0	o	3	5	3	2	14	1	1	2
MEAN	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1	1	1	İ	1	1	1	2	1	1.	1.2

PERCENTAGE OF DATA VALID - 94.6 PERCENTAGE OF DATA INVALID - 5.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- " " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTANT	٠.;	SULPH	4UR 01	0×10	i							UNITS	· o.	01 PA	RTS/N	ILLIO	N						
	ST	ATION -	WC	NO	27046	3	PUBLI	C WORK	5 20	OM S	BEAVE	RDAM	RD TH	OROLD		MON	TH -	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	1 17 3	0 1 5 1	0 0 2 0 1	0 1 0	0000	0000	0 0 0	0 0 1 0 0	600	4 0	1 3 0	0 0	O DATA	1 2 1 0 0 INVAL		1 1 0 0	0	0 1 0 0	0 1 0 0	0 1 0 0	0 0 1 0 0	0 1 35 0	0 13 18 0	24 3 0	1 2 4 0
8 9 10	••••	**** **	2	1	••••	•	1	2	0	<sub>2</sub>	1		DATA	I NVAL		0	1 2	. !	3	2 1	0	1	2	0	1
1 1 1 2 1 3	1	1 2	1 2 1	1 2	1 2 0	0 3 1	1 2	1 0	1 2 1	1 0	3 2 1	1 0		3 2	1	2	2			1	!	1	2		2
14 15 16 17 18 19	2 2 2 1 3	1 3 1 1 3	2 1 1 1 3	2 2 2 1 2	3 2 1 0	3 1 1 1 2	4 1 2 1 2	4 2 1 1 2	3 2 2 1	3 2 2 1 2	3 3 2 2 3	4 1 2 2 4	2	1 NVAL: 1 4 1 2 2 2 3	2 5 3 2 3 3	0 4 3 3 4 3	2 4 2 3 2 4	0 7 2 3 3 5	9 2 2 3	2 6 1 2 3	0 7 2 2 2 13	12 2 1 3 9	1 2 2 2 2 10	16 2 1 2 15	6 2 2 2 2 5
21 22 23 24 25 26 27	13 1 1	7 1 2 6	8 0 6 1	2 1 9 0	3 1 9	2 1 2 1	2 2 0	1 2 1 2	3 2 1 2	3 2 0 2	3 2 2 2		DATA DATA DATA	2 2 0 INVAL INVAL	. 01	3 2 4	3 2 2	2	1 1	3 8 2	100	9 1 1	10 2 0	0 0	4 2 2
28 29 30	0		0	0	0	0	0	0	0		••••		••••	1	0 1	0 1	0 1	1 1 2	1 1 2	0 1 2	0 0	0	0	0	0
MEAN	3	2	2	- 1	7	- 3	3	3		2	2	2	-	4	2	4	•	-	- 4	4	4	7	7	7	2.0

PERCENTAGE OF DATA VALID - 64.7 PERCENTAGE OF DATA INVALID - 35.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLICH

	POLL	UTAN	T - 5	ULPH	UR DI	DXIDE								UNITS	٠ .	01 -41		LLLIC	•						
	STAT	ION	. wc	NO	27046		PUBLI	C WORK	20	OM S	BEAVE	RDAN	RO TH	OROLD		MON	TH ·	V.T.A.	80						
HOUR	1	2	3	4	5	6	7		9	10	ш	12	13	14	15	16	17	18	19	20	21	22	23		MEAN .
1	0	0	0	0	0	0	0	0	1	1	1	1	1 2	1	2	2	2	2	1 2	1	,	1	0	0	1
5	ŏ	ŏ	ŏ	ō	0	a	0	0	1	1	1	1	1	1	1	2	6	7	7	11	13	7			3
4	7	6	2	3	2	1	1	2	3	1	1	1	1	2	2	3	2	2	2	2 2	2	2	- 1	- 1	2
5	i	i	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	2	2	1		- 1	1	ī
6	1	1	1	1	1	190	٥	0	1	0	1	1.	2	3 0 0	1	1	0	Ġ	ļ	,	ò	ò	ò	ò	ò
7	3	1	1	1	1	0	0	0	0	0	0	٥	0	0	0	0	0	š	0	0	ő	ő	ŏ	ō	0
8	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	3	C	ű.	o	o	0	ō	ŏ	ō	0
9	0	0	0	0	0	0	0	0	•	••••	٥	ن 0	0	0	S	0	Ü	ě	ŏ	ŏ	o	. 0	3	1	0
10	0	0	0	0	0	0	0	0	0	0	0	U	9	U	O	U	·				•		200		
11	0	1	0	0	0	0	0	0	0	0	0	٥	1	0	O	1	1	1 0	3	4	2	0	0	0	0
12	ō	0	0	0	1	0	0	0	0	0	2	0	0	o	0	o,	Ÿ		Ü	0		3	0	ā	č
13	0	O	U	0	U	U	0	1	1	Ü	O	••••	3	ن		- 1	2	á	- 4	- 1		ĭ	ĩ	1	1
1.4	0	0	0	0	0	0	0	0	0	0	- 3	3.	3	2	- 2	- 1		ĭ	200		,	0	0	0	1
15	1	1	0	0	0	0	0		2	. !	- :	2	- 1	- 1	- 1	- 1		- 1	- 4	i	- 1	1	0	0	1
16	0	0	0	٥	0	٥	0	1	3	1	- :	2	- 1	- 1	- 1	i	1	- 1	1	,	1	0	0	0	1
17	0	0	1	2	2	003	ő	3		ò	·	ó	ó	ò	ò	o	1	1	1	1	0	0	0	0	0
18	0	0	٥	0	0	0	0	ŏ	0	ŏ	ő	ŏ	1	ĭ	1	ī	1	1	1	0	0	0	0	0	0
19		0	0	0	Ö	٥	ő	×	0	ŏ	ŏ	ō	1	ì	i	1	1	1	1	1	1	0	0	0	0
20	0	0	0	0	U		U	u	U		•	•						-		-	_	11	٥	٥	
21	0	0	0	0	0	0	0	0	1		1	1	2	3	1	1	1	1 2	2	1 2	ō		,	ĭ	Î
22	ā	0	0	0	0	0	0	٥	0	0	1	1	2	1	2	2	7	2	2	- 2	- 2	- 1	ó	ò	ì
23	0	0	0	0	٥	0	0	٥	0	2	2	2		2	2	á	ő							1	0
24	2	1	0	0	٥	0	0	. 0	. 0	0	0	1	1												*****
23 24 25 26 27 28 29	1	0 .		••••			****		•••			****	DATA	INVAL	ın .										
26												-	DATA	INVAL	10 .										
27										(e)			0		0	0	0	0	0	0	0	0	0	0	*****
28							- ē		3		4		ŏ		1	ī	1	0	0	0	0	0	0	0	1
29	6	0	0	0	0	0	0	2		2	2	2	ž	,	2	2	2	2	2	2	2	2	2	1	1
30	0	U	U	0	J	0	•	•			•	-			-					-		U	U	U	
31	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1		- 1	1	1	U	Ü		. L
MEAN	1	0	0	0	٥	0	0	1	1	1	1	Ĭ	1	1	1	1	i	2	1	1	1	. 1	1	0	0.8

PERCENTAGE OF DATA VALID - 87.8 PERCENTAGE OF DATA INVAL:D - 9.4

PERCENTAGE OF DATA UNAVAILABLE - 2.8

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- . 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTAN	T - 1	SULPH	HUR DI	OXIDE								UNITS	- 0	.01 PA	RTS/M	ILLIO	N							
	ST	ATION	. wc	NO	27046		PUBLIC	WORKS	200M	1 5	BEAVE	RDAM	RD TH	OROLD		MON	тн -	JUN	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5	0 0 0 0 1	0	0 0 0 4	0 0 0 2 5 1	0	000000	00020000	0 0 1 3 1	ĭ	0002.2	0 0 0 1 0	0 0 1 0 1	1 0	1 0 1 1 0	000311	0 0 1 4 1 1	0 0 1 6 2 1	0 1 0 4 1 1	0 1 0 6 1	0 1 0 8 1 0	0 0 3 10 1	00212000	0 0 0 0 0	0 0 0 1 0 0	0 0 2 1	
7 8 9 10	0	0000	0000	0000	0	0000	0	0	0000	0000		0000	0 0 0	0 0 4 0	0 1 0	0000	0001	0 0 0 1	000	0 0 0	0	0	0000	0000	000	
11 12 13 14 15	0 0 2 1 0	0002	0 0 1 1 0	0000	0000	000100	0 0 1 1	0 0 1	2 0 1 2 1 0	02210	3 2 1 0	2 2 2 0	2 2 2	0 2 1 1	32101		2012	122001	2	210	3	2 1 0	0 2 1 0	0 2 1 0 0	0 2 1 1 0	
17 18 19 20	0	0	0	000	0	0	0	0	0	1 0	0	2 6	0	1 0	0	1	1	1	0	1 0	0	0	0	0 1 0	1 0	
21 22 23 24 25 26	1	1 1	1	1 1	1	1 1	1 1	1 2	1 2	1 2	2	3		INVALI		2	2	2	2	2	2	!	!			
26 27 28 29 30	2 0 0		0000	000	0	0 0	0 0	000	0	0 0	3 0 0	000	0	0 2 0	0	0 3 0	20	0000	0000	0	0	0 0	3 0 0 0	0000	U	
MEAN	0	0	0	0	0	0	0	30	1	1	1	1	1	1	1	1	1	1	1	1	,	- 1	U		0.0	

PERCENTAGE OF DATA VALID - 87.2 PERCENTAGE OF DATA INVALID - 12.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	ST	ATION	- WC	NO	27046	i	PUBLI	C WOR	KS 20	OM 5	BEAVE	RDAM	RD T	HOROLD		NON	TH -	JUL	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	a	0	0	0	0	o	٥	0	
2	0	0	0	0	0	0	0	0	0	0	0	0		2	4	5	4		2	2	2	2	1	1	1	
3	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	í	1	ī	2	ī	1	1	i	î	
4	0	0	0	0	0	0	1	1	1	1	1	1	1	0	2	3	2	2	2	3	2	2	2	î	i	
5	1	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	
6	3	2	2	3	6	10	7	6	5	4	4	3	3	3	3	3	3	4	2 5 2	8	7	5	3	2	. 4	
7	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	- 1		2	2	3	2	2	2	2	
8	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	4	9	16	5	2	3	3	
9	1	1	1	0	0	0	0	0	1	1	3	1	1	1	1	2	5	4	5	2	1	1	0	0	1	
10	0	0	0	0	0	0	0	0	0	0	••••		****		•••	• • • •		• • • •	••••	• • • •	• • • • •		• • • •	••••	•••••	
11 12 13			210 1										DATA	INVALI INVALI INVALI	D .											
15	****	••••	•••		****	••••	••••	••••	••••	••••	••••	••••			2	2	1	1	1	1	1	1		1		
16	0	0	0	0	0	0	0	0	0	0	1	0	1	3	3	,	1	2	3	3	1	1	3.	1		
17	0	0	0	1	0	- 3	0	0	0	0	0	0	1		1	1	1	4	0	0	1	4	4	4	1	
18	0	0	0	0	0	0	0	o	0	1	1	1	1	1	1	1	1	7	,	1	.1	0	0	O	1	
19	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	2	1	1	1		1	1	
20	0	1.	1	1	1	i	1	1	1	1	2	3	2	2	1	2	2	2	,	1	1	1	- 1	1	1	
21	1	t	1	1	1	0	0	0	0	0	0	1	2	1	1	1	1	1	0	0	0	0	0	0	1	
22 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	0	0	0	
23	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	2	1	0	0	0	3	6	1	1	1	
24 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	0	٥	0	0	0	٥	0	0	0	0	1	1	1	1	1	1	,	1	1	1	1	1	1	0	1	
26	1	1	1	0	0	٥	٥	0	0	0	0	1	1	1	0	1	4	2	2		0	0	0	0	1	
27	0	0	0	0	0	000	0	0	0	0	1		2	2	2	2	N.	1	1	0	0	0	0	0	1	
28	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	••••	1	0	1	1	1	1	1	1	1	1	0	0	0	
30	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	
31	0	0	0	0	٥	0	0	0	0	0	0	0	0	••••	1	1	1	2	1	0	0	0	C	0	0	
MEAN	1	1	1	0	1	1	1	1	t	1	1	1	1	1.	4	1	2	2	4	2	2	1	1	1	0.9	

PERCENTAGE OF DATA VALID - 83.1 PERCENTAGE OF DATA INVALID - 16.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- s	ULPH	HUR DIOX	IDE							L	INITS	- 0.0	1 PAR	TS/MI	LLION	4						
	STAT	ION -	WC	NO	27046		PUBLIC	WORKS	200M	s	BEAVER	MAC	RD THO	ROLD		MONT	н - д	UG	80						
HOUR	ì	2	3	4	5	6	, 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	REAN
1 2 3 4 5 6 7 8 9	0100000-00	0100000000	010000000	010000000	0 0 0 0 0 0 0 0 0	010000000	0 0 0 0 0 0 0 0	0-0000000	000000000	0000000100	0 0 0 0 0 0 0 0	0000000000	1 1 0 1 1 0 0 0 0	1 1 0 1 1 0 1 0	1 1 0 1 1 0 1 0	1 1 1 1 1 1 1 1 0 1 0	1 1 1 1 2 1 1 0	1 0 1 1 1 1 2 1 2	1 0 1 0 1 1 2 1 1 0	1 0 1 0 0 1 2 1 1 0	1 0 1 3 0 0 1 0 0 0	000000	1 0 0 1 0 1 1	1 0 0 0 0 0 0 1 1	1 0 0 0 0 0
11 12 13 14 15 16 17 18 19	1 0 0 1 1 0 0 1 0	20000110010	100000010	000000010	0 0 0 1 0 0 1 0	0001020010	3 0 1 0 2 0 0	3 0 0 1 0 1 0 0 1 0	1 0 0 1 1 0 0 1 0	0001110100	0 0 1 1 1 0 0 0 1	2 0 1 1 0 1 0 1 0 2	1 1 2 0 1 1 1 1	1 1 1 1 2 0 1 1	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 2 2 1 1 1 1	1 2 2 1 1 1 1 1	2 3 1 1 1 1	1 1 2 1 1 1 1 1	1 1 2 1 2 1 1 1 1	1 1 2 1 3 1 1 3	0 1 3 1 2 0 1 8	0; 1 1 3 1 1 1	0:1100001	1 1 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29 30	0100001101	0 0 0 0 0 1 1 0 1	0000001001	0 0 0 0 0 1 0 0 1	0 0 0 0 1	0000001001	0 0 0 0 1 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01000110	0 1 0 0 0 1 1 0 1 1 1	0 1 0 1 1 0 1 1	1 1 1 0 2 2 0 2 1	1 1 0 1 1 2 0 2 1	1 1 0 1 1 2 0 2	1 1 0 1 2 3 0 3 2	1 1 2 2 3 0 3 2	1 1 1 1 2 3 0 2 2	1 1 1 1 1 2 0 2 2	1 1 1 2 2 0 1 2	1 1 0 1 1 0 1 2	1 0 0 0 1 1 1 0 1 2	1 0 0 0 1 1 1 0 1 2	1 0 0 0 0 1 1 0 1 2	0000
31 MEAN	0	0	1 0	0	0	1 0.	0	0	0	1 0	1 O	0	1	1	2 1	2 1	1	2	2	2 1	2	1	1	1	0.7

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.DI PARTS/MILLION

	STA	TION	- WC	NO	27046		PUBLIC	WORKS	200	S MC	BEAVE	MAGS	RD TH	OROLD		MON	TH + 5	SEP	80						
HOUR	á	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	1	1	1	1	1	1	1	i	•	1	1		2	2	2	2	2	2	2	•	-	-	•	•	-
2	1	1	1	- 1	1	1	•	1	•	1	1	î	- 7	- 7					•	•	•	•	- 7	•	•
3	1	1	1	1	1	1	0	ò	ò	- 1	1	•		,	- 1		4	2	1	2	- 2		- 1		
4	0	٥	á	0	o	0	ŏ	ň	Ö	1		•	:	2		3			2		1	- 1			
5	0	ī	- 1	1	ī	ĭ	ĭ	ĭ	ĭ	-		- 4		-	2	3	3	3	3	3	2	2	- 1		
ě	1	1	- i	î	i	÷	i	4	:	- :		- 1		2	2	,	1		2	2	1	1	- 1		3
7	ò	0	ò	ò	o	ò	ò	ò	ò	ò		- 1		2	2	2	3	2	2	1	1	2	- 1	1	
	ĭ	ī	ĭ	ĭ	ĭ	ŏ	ŏ	ŏ	1	1	2	- 1	- 1	2	2	3	3		2	2	2	2	- 1	1	1
ă	ò		ò	ċ	ò	ŏ		ŏ				- 3			2	3	2	2	2	1	1	1	1	,	1
10	0	ò	ŏ	ō	ŏ	ŏ	0	ö	0	0	2	- 1		1	1	1		0	0	0	0	0	0	٥	0
	0	U			U	U	o	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
11	0	0	0	C	0	0	0	0	0	0	0	0	1	í	1	1	1	1					•	2	
12	0	٥	0	o	0	0	ŏ	7	3	7	ĭ	ĕ		á				ŝ	1	1	1	1	. 2		1
13	6	15	39	32	7	6	3	7	3	3	ò	ò	ò	ž	0	ò	ò	ŏ	0	0	٥	9	:0	ő	1
14 15 16 17	ō	0	39	0		ŏ	ŏ	ò	õ	õ	ă	ő	ŏ	0	0	ŏ	0		0	0	0	0	0		2
15	ŏ	ŏ	ň	ŏ	0	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ž	ŏ	ŏ	0			1	0	0	0	0	0	0	0
16	ō	ō	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ		Ÿ	٠			0	0	0	٥	0	0	0	0	0	0
17	1	1	·	ř	¥	٠	÷	ž	2	ž		1	- 1	1	1	2	2	2	1	2	2	2	2	2	
10	2			- 2	2	-	- 2	*	3	- 2	2	2	- 1	1	1	1	1	2	4	4	5	4	4	6	2
18	ő	- 7	?	- 7		-	4	-	•	. 2	4	4	2	2	2	2	2	2	2	2	2	2	2	2	3
20	ŏ	ò	1	1	1	- 4	1	1	1:	***	5	5	2	2	2	2	4	4	2	2	2	2	2	2	2
20	U	U	0	0	0	0	0	0	1	1		1	2	2	2	4	4	4	4	4	4	4	2	2	2
21	2	2	2	2	2	1	1	2	2	2	2	2	1	2	2	2	2	4	4	4	4	4	4	4	•
22	2	2	2	2	2	1	2	2	2	2	2	2	1	1	- 7	- 7	1	2	2	2	3	2	2	2	
23	1	1	1	1	0	0	0	0	0	0		1	0	Ó	i	i	2	- 2	5	7	•	- 1	- 7		7
24	1	1	1	0	0	0	0	1	1	1	13	5	ī	2	- 1	î	7	7		- :		- 2	•	7	•
25	0	0	0	0	0	0	0	0	ò	ò	1	- 7	î	7	- 1	•	•	;	- 4	- 2	- :	- 7	- 1	- 1	7
26	1	0	0	0	0	0	0	ō	ō •		ò	ò		•	- 0	7	7		- 1	- 4	- !	ò	ò		
21 22 23 24 25 26 27 28	0	0	0	0	ō	ō	ŏ	ŏ	ŏ	0	ŏ	ĭ	i			1			1	- 1	!	1	٠		
28	0	0	ó	0	ŏ	o	ō	ŏ	ī	1	1	- 4	ż	2	•	•	2	2	- 1		- 1	1			- 1
29	1	1	í	1	ō	ō	o	ŏ	1		i i	- 1	ō	7	-	1	•	- 1	1	,	- 1		,		1
30	1	1	1	1	ī	1	1	1	i	1	i	2	2	2	2	2	ż		0	0	2	0	0	1	- 1
MEAN	1	ì	2	2	i	1	1	1	1	1	2	,	1	1	1	i	2	2	2	1	1	1	2	1	1.2

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 51	JLPHL	R DIOXI	DE							UNITS	- 0.0	O1 PAR	TS/MI	LLIO	N						
	STA	TION -	MC	NO 2	7046	PUB	IC WORK	S 200M	1 5	BEAVE	RDAM	RD TI	HOROLD		MONT	н - о	CT	80						
HOUR	1	2	3	4	5	6	. 8	•	10	1.1	12	13	14	15	16	1.7	18	19	20	21	22	23	24	WEAN .
1 2 3 4 5 6 7 8 9	0 2 0 0 0 0 0 1 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	010000000	0	0 0	0 0 0 0	000000	000000001	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	200000000000000000000000000000000000000	2010001111	0 0 0 1 2 1 1	2 1 0 0 0 0 0 2 1 1	20000001111	200000100	200000100	200000100	200000000	2000000000	N000000000	1 1 0 0 0 0 0 1 0 1
11 12 13 14 15 16 17 18 19	000000-20	0 0 0 0 0 0 1 1 0	000000110	000000110	0 0 0 0	0 6	0 0 0	0 0 0 0 0 1 1 0	0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 1 1 0	0000001110	0000000110	00000	000000110	0000000010	000000110	000000110	0000000110	000000110	000000110	00000110
21 22 23 24 25 26 27 28 29 30	0 0 1 4 0 0 0 0 0 0 0 0 0	0000000000	0000000000	000-000000	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0022000000	0011000000	000000000000000000000000000000000000000	0011000800	0011000100	0 0 0 0 0	0 0 1 0 0 0	00000-00	0011000100	000000	1 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0 0 0	0 1 3 0 0 0 0 0 0 0 0	0 3 3 0 0 0 0 0 0 0 0	55000000	0 5 6 1 0 0 0 0 1	0 1 1 0 0 0 1 0 0 0
MEAN	0	0	0	0	-	0 (		0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1	0.3

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DATLY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION -	WC	NO	27046		PUBLIC	WORKS	200	и 5	BEAVE	MAGS	RD TH	CROLD		MON	тн - е	VOV	80						
HOUR	1	2	3	4	5	6	7	В	9	10		12	13	14.	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	1	2	í	1	0	0	0	0	0
2	0	0	ō	0	0	0	0	0	0	0	0	0 0 3	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	D	.0	0	0	0	0	1		2	3	3	3	3	2	2	2	1	*	1	1	1	2	1
4	2	0	0	0,00	0	0	0	0	0	0	0	1	1	1	1	3	1	0	0		1	0	0	1	o
5	0 2 0 0	0	0	0	1	0	0	0	0	0	1	1	2	1	0	1	1	1	1	0	0	0	0	0	0
6		0	1	1	1	1	1	1	1	1	1	,	1	1	2	2	2	2	1	1	1	1	1	1	1
7	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2		1	1	1	1	1	1	1	1	1
8	1	1	1	2	3	2	2	4	3	2	1	1	1	1	2	2	1	1	1	1	1	2	2	1	2
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	О	1
10	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	i	1	0	0	ţ	1	0
11	0	0	1	1	1	1	1	1	1	2	2	2	3	3	2	2	3	3	2	1-	1	1	3		2
	2	3	3	2	1	2	3	3	4	3	1	1	2	2	3	2	2	1	1	1	1	1	1	1	2
12 13 14 15 16 17 18 19 20	1	1	1	1	1	1	1	1	1	1	2	1	1	1		2	2	96		1				40	:
14	1	1		1	1	0	0	0	0	0	0	0	0	0	3	2	1	1	2	2	1	1	1	1	1
15	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	2	3	2	1	1
16	1	1	1	1	1	1	1	1	1	3	3	1	2	2	1		1	1	1	1	0	0	0	٥	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	0	0	0	1	О	٥	1
18	0	0	1	1	0	0	0	0	1	1	- 1	0	1	1	1		4	7	4	2	2	2		1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	4	1	1	1	,
20	1	1	1	1	1	1	1	1.	0	0	1	1	1	2	1	1	1	1	1	1	1	2	2	2	1
21	3	4	4	4	3	2	3	3	3	2	1	1	- 1	1	1	1	1	1	0	0	0	1		1	2
22	1	1	1	1	1	1	r	1	1	1	2	1	1	1		- 1	1.	1	1	1	1	1	- 1	1	,
23	1	1	1	1	2	3	4	4	4	3	2	4	6	4	4	3	2	1	1	1	1	0	1	1	2
24	1	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	4	7	5	3	1	1
26	1	1		1	0	0	٥	0	1	1	1	1	1	1	1	4	3	2	1	0	0	0	0	0	1
21 22 23 24 25 26 27 28 29 30	0	1	1	2	1	0 0 5 0	9	5	7	21	1.00		1	0	0	0	0	0	0	1	1	0	0	0	3
28	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	٥	0	0	٥	0	0	٥	0	٥	0
29	0	0	0	0	0	0	0	0	0	0	1	1	1	. 1	1	1	1	1	••••	****			• • • •	••••	0
30												•	DATA	INVALI	D -										
MEAN	1	1	1	1	1	1	1	t	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1

PERCENTAGE OF DATA VALID - 95.6

PERCENTAGE OF DATA INVALID - 4.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

POLLUTANT - SULPHUR DIOXIDE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION

PUBLIC WORKS 200M S BEAVERDAM RD THOROLD STATION - WC NO 27046 MONTH - DEC 80 HOUR 10 20 21 22 23 24 MEAN 1 2 3 4 5 6 7 8 9 10 2121261100 121441100 1 3 1 3 7 2 21441100 2462100 2522100 2671100 11 8 1 0 0 221000 201100 000 00 000 11 12 13 14 15 16 17 18 19 20 00. 21 22 23 24 25 26 27 28 29 30 INVALID INVALID INVALID 000 ٥ ...2 0 0 0 0 0 0 000 000 000 0 31

PERCENTAGE OF DATA VALID - 55.2

MEAN

PERCENTAGE OF DATA INVALID - 44.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

1.1

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC	NO	27046	PUBLIC	WORKS	200M	5	BEAVERDAM	RD	THOROLD

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	28	0.7	3	16
FEB	17	1.7	5	13
MAR	29	1,2	4	21
APR	17	2.0	6	35
MAY	27	0.8	3	13
JUN	25	0.6	2	10
JUL	25	0.9	•	16
AUG	31	0.7	1	8
SEP	30	1.2	5	39
OCT	31	0.3	1	. 8
NOV	29	1.1	3	21
DEC	16	1.1	5	20
YEAR	305	1.0	6	39

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

MONT	HLT GROUP	FREGUE	NCT DIS	HID	UITUN F	OH 11	100										
OL LU	TANT - SUL	PHUR D	IOXIDE								UNI	TS - 0	.01	PARTS/	MILL	ION	
STAT	ION - WC	NO 270	46	PUBL	IC WORK	\$ 200	M S	BEA	VERD	AM RD	THOR	OLD					
	MONTH OO	TO 05	06 TO	10	11 TO 1	5 16	TO	20	21	TO 25	26	TO 39	40	TO 49	50	&OV ER	TOTAL
	MAL	687		14		0		1.		0		0		٥		0	702
	FEB	388		35		2		0	-	0		0		٥		0	425
	MAR	676		23		4		0		1		0		0		0	704
	APR	436		19		5		3		2		1		٥		0	466
	MAY	642		9		2		0		0		0		0		٥	653
	JUN	624		4		٥		0		0		0		٥		0	628
*	JUL	609		8		0		1		0		0		0		0	618
	AUG	741		1		0		0		0		0		0		0	742
	SEP	706		5		2		0		0		2		Ü		0	713
	oct	737		2		٥		0		٥		0		0		0	739
	NOV	681		6		o		٥		1		0		0		0	688
	DEC	396		13		1		1		0		0		٥		0	411
	YEAR	7323		139	,	6		6		4		3		٥		. 0	7491

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES									
	PERCENT		-			CONCEN	TRATIONS					
	OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
			2.2					2.2				

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	MOITA	- 1	IC NO	27048	l,	NIAGARA	PUB	WOR	KS DO	MINION	RO.	FORT	ERIE		MON	tH -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	•••;	•••• <u>•</u>	1	1	1	•••• 1	****	1	1	2	1	1 1	DATA DATA DATA DATA DATA DATA	INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID		ļ	;	1	1	1	!	1	1	1	
11 12 13 14 15 16 17 18 19	1 0 2 0 0	1 0 2 0 0 0	0 1 0 0 0 0	0 1 0 0 0 0 0 0	1 0 0 0 0	1 1 0 0 0	1 1 0 0 0	1 1 0 0 0	0 1 1 0 0 0	1 1 0 0	0 1 1 1 0 0		CATA	INVALID INVALID INVALID 1 1 1 1 0 0		1 0 1 0 0 0	0 0 1 0 1 0	1 0 1 0	1 0 1 0 0 0	1 1 0 0 1 0	1 0 0 1 0	1 1 0 0 1 0	1 1 2 0 0 1 0	1 1 0 0 0 0	
21 22 23	1	200	1	1 1 1	0	0 1 0 0	0 1 0 0	0100	1 0	1 0	2 1	2	1 2 0	Ó	1 0	1 0	1 1 0	1	1 1 0	1 1 0	0	0	0	0	
23 24 25 26 27 28 29 30	••••	0 •••• 2 0		1 0			1 0	0	0		0 4 1		DATA	INVALID INVALID INVALID 2 0 3		1 0 2	0 0	0 0	2 0 0	3 0 0	2 0 0	0	0 0	000	1
31	0	0	0	0	0	0	0	0	0	0	0	0	1	t	1	1	1	1	1	1	1	1	t	1	1
MEAN	1	1	1	0	0	0	0	0	1	1	1	1	1	-1	1	• 1	1	1	1	1	1	0	. 1	0	0.6

PERCENTAGE OF DATA VALID - 48.3 PERCENTAGE OF DATA INVALID - 50.5

PERCENTAGE OF DATA UNAVAILABLE - 1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUT	ANT -	SULP	HUR D	OXID	1							UNITS	- 0	. 01 P.	ATS/M	ILLIO	N '						
	ST	ATIO	N - 1	ńć NO	27048	3	NIAGAR	PU	B WOR	KS DO	MINION	RD.	FORT	ERIE		MON	TH -	FEB	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9 10	1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 0 0 0 1 1 0 0 0 1	1 1 0	1	0 1 1 1 2 2 2 0 0 0 1	1 1 1 1 2 2 1 0 0 0 0	1 1 1 2 1 1 0 0 0 1	1 1 2 1 1 0 0 1	1 1 1 2 2 1 0 0 0 1	1 1 1 2 1 1 1 2 2 1 1 2 2 1 1	1 1 0 2 2 3 3 1 1 3		3 2 1 1 1 2 1 1 1	3 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		001111001111111111111111111111111111111	0 1 1 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0	00011	00001	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 1 1 0 2 2 0 0 0 0 0	1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 1	2 1 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
14 15 16 17	0	0		0	0	0	0 2	0 2	0	0	0			O I I I I I I I I	ID -							0		••••	0
19	3	6	5	4	4	4	5	3	3	2	. 2	2	2	2	2	2	2	ī	i	ī	î	ī	ō	ō	2
21 22 23 24 25 26 27 28 29	0 1 0 0 1 0 2	01000	1 1 0 0 1 1 0 0	1 0 0 1 1 0	0 0 0 1 1 0	0 1 0 0 0 0 2 0 0	0 0 2	0 1 0 0 0 1 1 0	0 1 0 1 0 1	0 1 1 0 2 0 1 0 0	1 1 0 5 0 1 1 2 -	0 5	2 1 0 0 3 1 1	1 1 0 2 1 1 1 1 1 1	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0	0 1 0 0 1 0 0	0 0 0 0	0 0 0 0 0 1	0 0 0 1	000000000000000000000000000000000000000	0 0 0 1 1 0 0 1	1 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 2 0 1	1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MEAN	3	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	٥	1	4	1	1	0.8

PERCENTAGE OF DATA VALID - 80.0 PERCENTAGE OF DATA INVALID - 20.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

	ST	ATIO		WC NO	2704	8	NIAGAR	A PL	18 WOI	RKS D	MINION	RO	FORT	ERIE		MONT	н -	MAR	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24	MEAN
1 2														INVALI											
3				****	****		****					3	3	3	6	4	1	. 1	1	1	2	3	2	2	*****
4	1	1	1	2	2	3	3	3	3	4	4	4	3	3	3	3	3	2	2	2	2	2	3	4	3
5	4	4	3			5	5	3	2	2	1	- 1	1	1	1	1	1	1	1	1	1	- 1	1	3	2
6	1	1	1			1	1	1	1	2	3	- 1	1	1	1	1	1	1	1	1	1	4	2	2	1
7	2	2	1			1	2	2	2	3		2	2	3	3	3	3	2	- 1	2	2	- 3	0		2
8	2	2	2	2	2	2	4	•	3	2	2	- 1	- 1	1	1	- 1	- 1		- 1	,	1		9	2	
. 9	1	1	. 1	1	1	1		- !	1	- 1	1	- 1			- 1	ò	,		!	2	3				- 4
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11	9													INVALI											
12												- 1	DAIA	1 104461		0	•								
14							3.5.33		5 5 5 5			- 1	DATA	INVALI											
15														INVALI											*
16														INVALI											
17							****				0	٥	0		0	0	1	٥	0	1	0	0	0	0	*****
18	0	0			0	0	0	0	0	0	ō	ō	ŏ	ŏ	0	0	0	0	1	1	ī	0	0	0	0
19	1	ī	2	ì	ī	ō	ī	ī	ĩ	2	ī	ī	1	1	1	0	0	1	0	1	1	0	1	0	1
20	ó	o	ō		1	Ĭ	1	1	1	1	,	0	1	0	1	1	0	٥	••••	••••	••••	••••	••••	••••	1
21	••••	••••	••••	••••	••••	••••	••••	•••	••••	••••	1	1		2	1	1	1	1	1 2	1	!	1	1	1 2	*****
22		2				1	2	ż	- 1	2	- 4	- 1	2	3	-		2	2	•		2	2	2	2	2
23 24 25 26 27 28	3	- 2	2		1	- 1	1	2	2	3		à		5	3	1	- 1	2	1	- 1	1	1	- 7	ī	2
55	1	i	;			à		ī	- 1	- 7	7	2	- 1		1	è	•	- 7	i	- 8	ò	ò	ò	- 1	ī
25	i	i	i		ŏ	0	ò		•	- 4	i	- 7	2	•	i	ó	o	1	i	- 1	ĭ	ō	0	0	1
27	ò		ċ		0	ő	0	0	•	- 1	i	3	2	•	i	ī	ī	1	i	1	i	ī	1	1	1
28	ĭ	3	2	1		ŏ	ŏ	ĭ	i	- 9	2	3		4	3	3	2	1	1	1	1	1	1	2	2
29	ò	ō	ō		1	ĭ	ŏ	ò	ò	ò	ō	ō	ī	1	ō	ō	ō	0	ó	Ó	1	1	1	1	0
30	ŏ	ī	ĩ	1	1	ò	ō	1	ī	1	ī	1	1	ì	1	ĩ	1	1	1	1	; 1	1	1	1	1
31	1	1	1		0	0	0	0	٥	0	0	0	0	0	٥	0	0	0	٥	0	0	. 0	0	1	0
MEAN	1	1	1	1	1	1	1	1.	1	1	1	1	2	2	1"	1	1	1	1	1	1	1	1	1	1.2

PERCENTAGE OF DATA VALID - 69.2 PERCENTAGE OF DATA INVALID - 30.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	DELUTANT - SULPHUR DIOXIDE												UNITS	- 0.	01 PA	RTS/W	ILLLIC	N							
	ST	ATION	- wo	NO S	2704	8	N I AGA	RA PU	B WOF	KS DO	MINION	RD.	FORT	ERIE		MON	TH -	APR	80							
HOUR DAY	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5	0	0	0 1 0	0 2 0	2	0 1			5 3		2.		DATA	2 0 0 INVALI INVALI INVALI	0 -	0					••••				1 0	
8 9 10	 0	8	0	0	0	0	0		0	0	0	00	0	0 1 0	0 2 0	1	1	0	0	0	0	0	000	1	0	,
11 12 13 14 15 16 17 18 19	00000000	02000000	02000000	02000000	0 0 0	200000		0 2 0 0 1 0 0 0 1	0 1 0 1 1 0 1	0 0 0 0 1 1 0 1	0000	0000001111		000000000000000000000000000000000000000	000001011	000010112	0000010121	0001010021	0000	0000010011	000001011	000001010	000000010	0100000010	000000000000000000000000000000000000000	
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	0010001000	0010102000	0 1 0 2 0 0	0101020	0 1 0 2 0 0	0 1 0 1 1 1 0 0 0	0 1 0 1 1 1 1 1 1 1 0 0 0	1 1 1 0 0 0	0 2 0 8 0 2 1 0 0 0	1401051011	3 4 0 3 1 0 0 1	2	1 1 6 4 0 1 1 0 0 2	1 1 2 0 1 1 0 0 6	1 1 0 0 1 1 0 0 2	1 1 0 0 1 1 0 0 3	1 1 0 0 1 1 0 0 1	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	00000	001000	0100010000	0 1 1 1 0 0 1 1 0 0 0 1	
MEAN	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0.5	

PERCENTAGE OF DATA VALID - 82.1 PERCENTAGE OF DATA INVALID - 17.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTART - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

						_	reconstruct												500							
	5	TATIO	N .	WC NO	2704	В	NIAG	ARA F	UB WO	RKS DO	ONINIO	N RD	. FORT	ERIE		4.0	NTH -	MAY	80							
DAY	1	2	3	4	5	6	7	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0		0	0	0	0	0		o	D	0	0	_		_	_		_	_	
2	0	0	0	0	ō	ō	0		ŏ	o	ŏ	۵	ő		0		0	0	0	0		0		0		
3	0	0	0		0	0	0		1	1	1	ī	ō		ĭ	1	1	-	1			1		ŏ		
4	0	0			Q	0	0		0	0	0	0	0		1	1	1	1	o	Ö	ė			ŏ		
2	0	0	0	0	0	1		1.5		1	1	1	0	•	0		0		0	0	0		0	0	0	
7	ŏ	0	0	0	0	0	0	0		0	0	1	1	1	1		1		1	0	0			1		
8	ŏ	ŏ	0	ő	0	ŏ	1	,	1	1	0	0	0	0	0		0		0					0		
9	0	0	1	ō	ō	ŏ	ò	ć		ò	ò	'n	ŏ	0	0	0	0	0	0	0	0	0	0	٥	0	
10	1	••••	••••	••••	••••	••••	****	****		****	••••	•••	••••	••••	••••		•••	••••	••••	••••		••••	••••			
11 12 13 14			31.									*	DATA	I NVAI I NVAI I NVAI I NVAI	.ID -											
15	****	****	****	****		****	****	****		0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	*****	
16	0	0	0	0	0	0	0	C	0	0	0	2	3		1	1	1	1	0	0	ō	ō	o	1		
18	3	1	1	0	0	0	2	2	4	1							****	****	••••	****		• • • •	****	••••	*****	
19														INVAL												
20	****	****					****			1	1	1	JAIA	INVAL	1				190	1	1	1				
21	0	٥	٥	٥	a	0	0						- 1								,	-1				
22						,	175					- 04	TA UN	IAVALL	ABLE	•				-	-	•		-		
23	•	•	*		-	100					•				6	7	3	• • • •			3	2		2		
24	1	2	1		1	1	1	2	、 2	3	3 •									****	••••	••••				
25 26							2222	SEL 2	-24-	III				INVAL	ID -											
27	2	1		0	0		.,			••••		- 1	2	4	1	1		1	1	2	,	1	1	1	*****	
28	- 1	1	- 4	ĭ	1			2	2	2	2	2	1	6	1	1	3	9	0	1	- 1	1	- 3	1	1	
29	1	2	1	i i	1	1	4	7	ē	4	2	2	3				3	3	2		1	1	2	2	2	
30	3	3	2	2	3	3	••••	3	3	3	3	3	3	3	3	2	2		3	3		••••	2	2	3	
31	2	••••	••••	2	2	2	2	••••	2	2	2 •	• • •	••••	2	2		2	2	2	2	2	2	1	1	2	
MEAN	. 1	1	0	0	•0	1	1	1	2	1	1	1	•	1	1	*	ŧ	1	1	1	1	1	1	1	0.9	

PERCENTAGE OF DATA VALID - 57.3

PERCENTAGE OF DATA INVALID - 36.3

PERCENTAGE OF DATA UNAVAILABLE - 6.5

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS . O.O. PARTS/MILLION STATION - WC NO 27048 NIAGARA PUB WORKS DOMINION RD. FORT ERIE 10 11 12 13 14 15 16 17 20 21 22 23 1 2 3 4 5 6 7 8 9 10 1 \*\*\*\* \*\*\*\* 1 DATA INVALID 11 12 13 14 15 16 17 18 19 20 ٥ 1 2 1 0 2 1 0 0 21 22 23 24 25 26 27 28 29 30 1 022211

PERCENTAGE OF DATA VALID - 87.4

MEAN

PERCENTAGE OF DATA INVALID - 12.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0.9

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 PARTS/MILLION

	POL	LUTANT	- 50	LPM	OI DIO	KIDE								014113											
	STA	TION -	WC	NO	27048	,	NIAGARA	PUB	WOR	(\$ DO	MINION	RD.	FORT	ERIE		MON	TH -	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	٥	0	0	0	0	0	0	0	0	0	٥	1	3	1	3	3	1	2	2	1	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0		0	ö	Ÿ
3	0	0	0	0	0	0	0	0	1	3	1	2	3	****	0	٥	0	0	1	. 1	1	0	Ö	ŏ	
-1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	ŏ	0
5	0 0 0 0	1	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	ŏ
6	0	0	o	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	O	0			ŏ
2	ŏ	ō	ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0
a	0	0	ō	0	0	0	0	0	O	0	0	0	0	0	0	Q	0	0	0	0	0	0	0	0	ų.
9	0	ŏ	ā	0	0	Q	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0
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71	0	0	0	o	0	0	0	0	0	٥	o	0	0	0	0	٥	0	0	٥	0	0	0	0	0	0
12	0	1	3	0	0	0	0	0	0	c	0	0	0	0.0	5	0		0	1	1	0		ő	ő	0
13	0	0	0	0	0	0	0	0	0	0 0 0	0000	0	0	0	0	0	0	0	00	0	0	0	ŏ	ŏ	č
14 15 16	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	٥		0	0	0	ő	0 0 0	0 0 0
15	0	٥	0	0	0	0	0	,	0	0		1	0	0	0	0	0	0	0	0	0	0		ŏ	ž
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	ŏ	ŭ
17	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	1	0		0	o o
16	0	٥	o	0	0	0	0	0	0	0	1	1	0	0	0	٥	0	0	0	0	0	٥	0	0	ŭ
19	ō	ō	ō	0	0	0	0	0	0	0	0	0	0	1	3	3	2	1	0	0	0	0	0	0	000
20	0	0	ō	0	О	0	0	0	0	0	0	0	0	0	0	٥	1	0	0	0	0	1	0	٥	
21	0	0	0	0	0	0	0	0 .		0	0	1	0	1	0	0	000000	0	0	0	0	0	0	000	0
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24	õ	ŏ	ŏ	ō	ŏ	ō	ō	٥	ā	0	0	0	0	0	0	0	0	0	0	0	0	0	0	000	0
25	000	ŏ	ŏ	ŏ	ō	ō	o	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o
26	Ö	ŏ	ŏ	ŏ	ō	ō	ō	0	0	0	0	0	0	5	0	0		1	1	0	0		0		0
27	ŏ	ŏ	ŏ	ō	ō	ō	o	ō	0	0	0	1	1	0	11	0	0	0	0	0	0	0	0	0	0
28	ŏ	ŏ	ĭ	ĭ	ō	ō	ō	ō.								*			-		-			(*)	*****
20	•	•	7.		•	•	-					- DA	TAU	NAVAI	LABLE										
21 22 23 24 25 26 27 28 29 30	×	•		•	-	9-1	) <u>L</u> ,		-	*	*	•	0		0	0	0	0	٥	0	٥	0	0	٥	•••••
31	0	٥	Q	0	0	0	0	0	0	0	0	0	0	0		••••	••••	••••	••••	••••	••••		••••	••••	*****
MEAN	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 91.3

PERCENTAGE OF DATA INVALID - 2.3

PERCENTAGE OF DATA UNAVAILABLE - 6.5

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE NIAGARA PUB WORKS DOMINION RO. FORT ERIE MONTH - AUG 24 MEAN HOUR 8 9 10 11 INVALID INVALID INVALID O O DATA DATA DATA O O O O O 3 4 5 6 7 8 9 . . . 000000 0000-2010:00001 10-0000000 12 13 14 15 16 17 18 19 20 000000-000 -00000 00000 - 0000 000-22 23 24 25 26 27 28 29 30 00. .000040 00. .0 DATA 0 0 0 0 1 NYALIO 0 0 0 0 3 .000000 ō MEAN 

PERCENTAGE OF DATA VALID - 75.4

PERCENTAGE OF DATA INVALID - 24.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - D.DI PARTS/MILLION

	STA	TION	. ,	IC NO	27048	E	NIAGAR	RA PU	B WOR	KS DO	MINION	RD.	FORT I	ERIE		MONT	TH - 5	SEP	80						
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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30	2	4	2	2	2	2	4	-	3	3	3	3	3	3	3	3	3	3	3	-	2	-	-	•	•
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PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLIUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - WC NO 27048 NIAGARA PUB WORKS DOMINION RD. FORT ERIE MONTH - OCT 80 9 10 11 12 14 . 15 16 20 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 3000 2 0 C 0 1 1 2 3 2 9 0 012210 2 2 1 1 2 2 1 0 2 2 0 0 1200 2200 200 0 0 200 21 22 23 24 25 26 27 28 29 2 0 2 0 0 2 020500 0 31 0 ٥ ٥ 0 1.1

PERCENTAGE OF DATA VALID - 94.6

PERCENTAGE OF DATA INVALID - 5.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

	F (4.000)			22.21.31																					
	STA	TION	. wo	NO :	27048		IAGAR	A. PUE	WORK	s Do	MINION	RD.	FORT	ERIE		LICH	TH .	VO:	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.9	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	٥	٠.	ŭ	
3	0	1	1	0	0	0	0	1	1	2	2	2		2	2	1	1	1	1	1	1	- 1	1		31
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5	0	0	0	0	0	0	0	0	0	0	0	2	0	٥	0	0	0	0	0	0	0	0	0	٥	0
6	ŏ	ŏ	o	0	1	1	1	1	1	0		0	0	0	0	0	0	0	0	0	0	0	1	1	o
7	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	C	0	0	0	0	0	1	0	
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26	1	1	0	1	0	0	0	0	0	1	1	1	9	6	6	1	1	0	0	0	0	0	0	٥	1
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PERCENTAGE OF DATA VALID - 97.2

PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - D.C: PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE NIAGARA PUB WORKS DOMINION RO. FORT ERIE MONTH - DEC 80 STATION - WC NO 27048 24 MEAN 9 10 1.1 12 13 14 15 16 17 18 19 20 21 22 23 8 HOUR 3 0 0000--000 0000001 0000-4-01 000011 1 2 3 4 5 6 7 8 9 0000111000 0000-0-000 000000-000 00000-0000 0000001000 000161010 00045-0-0 00012000 00013000 3 000 ò 1 11 12 13 14 15 16 17 18 19 20 00000-0000 00000-0000 0000010070 00000-0000 0100100000 0000000000 0120000000 0 ---00000000 0-00000000 0000-00000 00001200000 00000-0-00 0-00-00-0 0001110000 10 21 22 23 24 25 26 27 28 29 DATA DATA O NVALID INVALID 0 1 000--00011 0002211 000261 000521 002421 00011200 00012100 00012110 00011 0011 001531 0 0 1 035 0 0 ٥ 31 2 2 2 0 0.6 ٥

PERCENTAGE OF DATA VALID - 92.1

PERCENTAGE OF DATA INVALID - 7.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION .	WC NO	27048	NIAGARA	PUB	WORKS	DOMINION	RD.FORT	ERIE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXINUM	MAXIMUM READING
JAN	13	0.6	1	4
FEB	21	0.8	2	6
MAR	20	1.2	3	7
APR	24	0.5	7	8
MAY	15	0.9	3	9
JUN	27	0.9	2	6
JUL	27	0.1	:	5
AUG	22	0.2	1	9
SEP	30	3.1	3	4
OCT	29	15.1	.3	6
VCM	30	0.6	2	9
DEC	29	0.6	3	8
YEAR	287	0.7	3	9

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

# MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

MONTHET O	NUUF FREU	JENCY D	ISTRIBU	TIUN FOR 15	80						
POLLUTANT	- SULPHUR	DIXOID	Ε			U	NITS - 0.01	PARTS/MI	LLION		
STATION -	WC NO 27	7048	NIAGA	RA PUB WORK	S DOMINION	RD.FORT	ERIE				
MONT	H 00 TO 05	06 T	0 10 1	1 70 15 16	TO 20 21	TO 25 26	5 TO 39 40	TO 49 50	GOVER	TOTAL	
JAN	359		0	0	0	0	0	0	0	359	
FEB	556	5	1	0	0	٥	0	0	0	557	
MAR	513	3	2	o	0	0	0	0	0	515	
APR	588	3	3	0	0	O	0	0	0	591	
MAY	419	,	7	0	0	0	0	0	0	426	
JUN	628	1	1	0	0	0	0	o	0	629	
JUL	679	i	0	0	0	О	0	0	0	679	
AUG	558	ĺ	3	0	0	o	0	0	0	561	
SEP	708	i	0	0	0	0	0	0	0	708	
OCT	701		3	0	0	0	0	О	0	704	
NOV	696	1	4	0	0	0	٥	0	0	700	
DEC	679	i	6	0	0	0	0	0	0	685	
YEAR	7084		30	0	0	0	0	0	0	7114	
FREQUENCY	DISTRIBUT	ION BY	PERCEN	TILES		CONCENTRA	TIONE				
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POLLUTANT - SULPHUR DIOXIDE

	STA	TION	27049	7	MURRAY	/BUCH	ANAN	AV.	NIAGA	A FAI	LLS		*	"CN1	н - ,	NTV	80								
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	: 6	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 2 0 2 1 1 0	0 0 0 1 2 2 1 1 1 0	0 0 0 0 2 3 1 1 0	0 0 1 2 1 1 0 0	0000	0 0 1 2 1 0 1 1 0	0 0 0 0 1 1 1 1 1 2	0 0 0 0 1 2 1 1 0 3	0 0 0 4 1 2 0 1 0 6	0 0 0 2 0 1 1 0 6	0 0 0 3 1 4 0 1 0 3	0 0 0 3 1 2 0 1 0 3	0001020114	0 0 0 1 0 2 0 1 3 4	0001120112	0 0 1 0 3 1 2 0 1	0001050101	0 0 1 0 2 2 2 0 1	0 0 1 1 0 0 0	30001	0 0 0 2 0 2 1 1 0 2	0 0 0 2 0 1 1 1 0 2	0 0 0 1 0 2 1 1 0 2	0 0 0 2 0 3 1 1 0 2	0 0 0 1 1 2 1 1 0 2 2
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0	200000001	3 0 0 0 1 1 0 0 0 1	0 0 0 1	2 0 0 0 1 2 1 0 0 1	2 0 0 0 1 2 1 0 0 1	2 0 0 0 0 2 1 0 1 1	1010121911	20100021111	1 0 2 0 1 2 1 1 0 1	1 0 2 1 0 0 1	0010121101	1 0 0 1 1 1 1 1 1	10001121011	1001	1 0 0 1 1 0 1 1	1001	10001	0000121001	1002111001	1 0 0 1 1 1 0 0 0 1	10010	1000110001	1 0 0 0 1 1	1 0 0 1
21 22 23 24 25 26 27 28 29	0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0000010120	1 0 0 0 0 0 0 2 0	0 0 1 0 0 1 1 0	0 0 0 0 1 0 1 1 0	0 1 0 1 1 0 0	0000110010	0 0 0 0 1 1 1 1 1	0 0 0 1 1 0 1	0 0 0 1 1 0 1 0 1	0100100001	1 0 0 2 1 0 0 1 2	0 1 3 1 1 1 1 3	0101501125	0 2 0 1 5 1 1 0 1 3	0 2 0 1 5 0 2 0 0 1	0 1 0 1 6 1 3 0 0 4	0100501004	000000	000110000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1200101000	0 0 1 0 0 1	00001	0 0 0 2 1 1 1
31 MEAN	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	t	1	1	1	0.7

PERCENTAGE OF DATA VALID - 99.5 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE . 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	r - s	ULPH	UR DIO	XIDE								UNITS	- 0.1	01 PA	RTS/M	ILLIO	N .						
	STA	TION	- wc	NO	27049	м	URRAY	/BUCH	ANAN	AV.	NIAGAR	A FA	LLS			MON	TH - 2	FEB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	ΤĒ	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 1 1 2 3 3 2 1 0	0 1 1 3 3 3 1 0	0 1 1 2 3 2 3 1 0	0 1 1 0 5 1 2 1	0 1 1 2 1 5 1 2 1	0 1 0 1 5 1 3 1	0 0 1 0 2 4 1 3 1	0 0 1 1 3 4 1 2 1	3 0 1 1 2 3 1 3 2	2 0 1 0 3 3 1 3 1	1 0 1 1 2 3 1 4 1 1	1 1 2 1 1 6 2 1	1 1 2 1 1 3 3 3	1 0 2 2 1 3 2 2	2 1 1 2 1 2 1	1 1 2 2 1 2 2 1	5 2 1	2 0 0 1 1 6 2 1	2 1 0 1 3 1 2 1 1	1 0 2 3 1 2 2 1	1 1 3 1 2 2 1	1 1 3 3 2 1 2 0	3 2 1 2 0	1 1 1 3 3 1 1 1 1	1 1 2 2 2 3 1
11 12 13 14 15 16 17 18	1 0 1 2 1 0 1 0 3 1	1 1 0 2 2 0 2 2 4 0	3 3 0 1 3 4 0	1 1 1 2 4 0 0 4 4 0	2112200330	1 2 0 1 2 1 0 1 3 1	1 1 1 0 0 1 3 0	1 0 1 1 0 0 1 2 0	2 0 1 1 1 0 0 0 2 0	3 1 1 1 0 0 0 2 1	2 1 0 2 1 0 1 0 2 3	1 1 0 0 1 2 3	2 2 2 2 0 0 1 2 3	2	2	1 2 1 0 0 0 2 2	2 2 2 0 1 0 1 2 2	1 2 1 0 1 2 1	1 0 0 2 1 0 1 2 1	0 1 2 1 0 1 0 1 0 0	1 00 100 00 100	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 2 1 1 0 1 0 0	1 0 3 2 0 1 0 3 0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29	0 2 1 1 0 0 1 1 2	0 2 0 0 1 1 1 0 1	0 2 0 1 0 1 1 0 1	0 2 1 0 1 1 0 1	0200011111	0 2 1 0 1 1 0 2 0	0 2 0 0 0 0 1	0100001010	0 3 0 0 1 1 0 1 1	0 1 1 0 1 0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 1 1 1 1	1 0 1 2 1 1 0 1	0 -	1 1 1 0 0	0 1 1 1 1 1 1 1 1	0 0 2 1 1 1 1 1 1 1 1 1	001111011	00:01:011	1 0 1 1 1 1 1 1	101011	10000	1 0 0 0 1 1 1 1 1 1 1	1 1 0 0 0 1 0 1 2	0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
me An			1	,			,	ı	1	3.	1	1	,	1	1		1	1	,	1	1	1	,	4	1.1

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 0.9 PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - O.C. PARTS/MILLION

STATION - WC NO 27049 MURRAY/BUCHANAN AV. NIAGARA FALLS MONTH - MAR HOUR 24 MEAN -33032-12 13 14 15 16 17 18 19 20 -0-0-000-0-0-000-0-0-0001 0 1 22 23 24 25 26 27 28 29 30 00-0000000 0000000-0-0000-0--0-0000000-0-000000-00 0 1 1 1 1 1 0 1 1 1 Q a MEAN

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION NONTH - APR STATION - WC NO 27049 MURRAY/BUCHANAN AV. NIAGARA FALLS 24 MEAN HOUR 00000-000 2 3 4 5 5 7 8 9 10 0000.0000 -000000000 30000-0-0 12 13 14 15 16 17 18 19 20 2-0-0-\*\*\*000111 0-00000101 0 1 0 1 000-00-0-0000-N 22 23 24 25 26 27 28 29 30 0-00000-0 0000000-00 --0:0000: 1.00000000 -00000000 -000000000 0.4 MEAN

PERCENTAGE OF DATA VALID - 98.2

PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.8

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

	STA	TION	- W(	NO .	27049	,	YARRUM	/BUCH	ANAN	AV.	NIAGA	RA .F	LLS			MON	тн - :	MAY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0000000000	0101000000	000000000	0000010000	00500000000	0000000000	0000000000	0000000000	000000000	0010000000	0000-0-000	0000000000	001000001	0010200001	0010000000	00000	0 1 1 0 0 0 0 1 1	1 0 0 0 0 0 1	0 0 0 0 0 0 0 0 1	0100000011	0 0 0 0 0 0 1 1	0000001100	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	0100011100	100000110	1000000100	1 0 0 1 0 1 0 0	1000121000	0 1 0 0 0 1 1 0 0 0	0 1 0 1 0 0 0 0 0	0 0 1 1 0 0 0 0	1 0 0 0 1 0 1 1 0 1	000212101	100112001	1 1 0 2 0 1 1 1 0 1	1 1 0 2 1 1 1 0 0 1	0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1 1 1 0 0 1	1 0 1 1 1 1	1 0 1	1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000011111111111111111111111111111111111	0 1 0 0 0 1	0 0 1 0 3 0 0 1	000101001	000000000000000000000000000000000000000	1 1 0 0 1
21 22 24 25 26 27 28 29 30	1 1 3 1 1 0 •	1 1 2 1 1 0 0 0 0 0	1 1 2 1 0 0 1 0 0 1	1 1 2 1 1 0 0 0 0	200000000000000000000000000000000000000	112000001	1 1 0 0 0 0 0 1	1 1 0 0 0 0 0 1 2	1 1 0 0 0 0 1 1 1	2 2 2 0 0 0 0 3 1 1	2 2 2 1 0 0 0 2 2 1 1	3 1 0 0 0 3	2 2 3 2 0 1 2 1 1	2 2 3 4 0 0 1	2 3 1 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 1 1 0 1 1 1 1 1 1	2212000111	2 2 1 1 1 0 0 1 1 1 1 1	2211000011	1 2 1 1 0 0 0 0 1 1	1 2 1 0 0 0 0 0 1 1	2 2 0 0 1 0 0 1 1	1 2 3 1 0 1 0 0	2 2 1 0 0 0 1 1 1 1
31 MEAN	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	,	1 0	0	1 0.6

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - \* \* INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	PC	LLUTA	NT -	SULPH	IUR DI	OKID	E							UNIT	s · o.	01 PA	RTS/M	LLLIO	N						
	ST	ATION	× 9	C NO	27049	•	MURRA	Y/BUG	CHANAN	AV.	NIAGA	RA F	ALLS			MON	TH - 1	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6	0 0 0 1 0 1 0 0	0 0 1 0 0 1 1 0	0000000	0 1 0 0 1 0 0	00001100	0 0 0 1 1 0 0		2 1		00001	000	00011111	0 0 1 1 1 1 1 1 0	0 1 1 0 1 0	0 1 1 1 0	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 2 1 1 0	0 1 1 1 1 1 1 0	0 0 1 0 1 1 1 0	0 1 1 0 1 1 0	0 0 1 0 1 1 0 0	1 1 0 0 0	0 0 1 0 1 0 1	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10	0	0	0	0	0	0	0		0	0	0	0	0	0	10	1 0	1	0	0	0	000	;	0	0	0
11 12 13 14 15 16 17 18 19	00121000	000	1100000	1 1 0 0 0 0 0		-00000	000	0	1 0 0 1 0		2 1 1 1 1	2 1 1 1 2 0	1 1 2 2 1 0 1 1 2 0	0132201120	1 1 1 1 0	0 2 3 2 1 1 1 1 0	1 3 2 1 0 1 1 0	3 2 0 0 0 1 1 0	20001110	1 0 1 0 0 1 0	1 2 1 0 0 0 0 0 1 0	0 - 2 1 0 0 0 0 1 0	0 - 2 1 0 0 0 1 1 0	31000100	1 2 2 1 0 0 1 1 0
21 22 23 24 25 26 27 28 29	222000	0 0 0 0 0 0 0	1 0 0 1 2 2 0 0 0 0	00122	0 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000	0 0 1 2 2 0	0	ō	0 1 1 2 0 0 1 0 0	2000100	22201	1 1 2 : 0 0 0 0	2220000	0	0 1 2 2 2 0 0 0 0 1	0 1 2	00 - 21 000001	0 1 1 2 0 0 0 0 0 1	0 1 1 2 2 0 0 0 0 0	0 1 1 0 0 0 0 1	0 0 0 0 0 1	10000	0 0 2 2 2 1 0 0 0	220000
MEAN	0	0	0	0	0	0	٥	٥	1	٥	1	1	1	1	í	1	1	1	1	0	1	0	0	1	0.5

PERCENTAGE OF DATA VALID - 92.5 PERCENTAGE OF DATA INVALID - 6.3

PERCENTAGE OF DATA UNAVAILABLE - 1.3

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS + 0.01 PARTS/MILLION

	S	TATION		NC NO	27049	1	MURRA	Y/BUCK	HANAN	AV.	NIAGA	ARA FA	LLS			MON	TH -	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 4 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	3 1 1 0 0 0 0 1 1	3 1 1 0 0 0 0 1 1	3 1 0 0 0	00000	4 1 0 0 0 0 0 1 0 1	5 2 0 0 0 0 1 1	5 3 1 0 0 0 2	0000	5 2	6 2 1 2 0 0 4 1	6 1 0 0 0 0 1 1 2	6 1 1 0 0 0 4 1 3	6 1 1 0 0 0 3 1 1	7 1 0 0 3	6 0 0 0  3 2	3 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 1 0 0 0 2 2
10 11 12 13 14 15 16 17 18 19	0 1 0 0 0 0 1 1	1 0 1 0 1 0 0 1	1 0 0 0 1 1 0 0 1	1 0 1 0 0 0 0 1	1 0 1 0 0 0 0 1	1 0 1 1 0 0 0 0 1	1 0 1 0 0 0 0 1	1 0 0 0 0 1 1 2 0 0 1	1 0 0 0 0 1	1 0 1 1 0 0 0 0 1	0 0 1 1 0 0 0 0 0 1	0 0111000001	0 1 1 0 0 0 0 0 1 1	0 1 1 0 0 0 0 1 1 1 1	0	0 1 1 0 0 0 0 1 1 1	1 1 0 0 0 0 1 1	0 1 1 0 0 0 1 1 1	0	0 1 1 0 0 0 1 1 1	0 1 1 0 0 0 1 1 1	0	0 11.0000111	0 1 1 0 0 0 0 0 1 1	0 0 0 0 1 1
21 22 23 24 25 26 27 28 29 30	1 0 0 1 0 1 0 1	1 20 1 0 1 0 1	00001010	100000100100100100100000000000000000000	1000000001	17000010010010010010001000100010001000000	000000000000000000000000000000000000000	2000111001	10010101	0 0 0 1 0 0 0 1	0 0 0 1 1 0 1 1	0001111011	0 0 0 1 1 2 1 0 1 1	0 0 0 1 1 1 1 0 1 1 1	1 0 0 1 1 0 1 0 1	1 0 1 1 1 0 1 1 0 0 1	0 1 0 1 0 1	1 0 1 1 1 0 0 1 1	1 0 0 1 1 1 0 1 0 1	1 0 0 1 0 1 0 1	1 0 0 1 1 1 1 0 0 1	1 0 0 1 1 0 0	000110110	1 0 1 0 1 0 1 0	1 0 0 1 1 1 0 1 1
MEAN	1	1	1	,	0	1	0	1	1	1	1	1	1	1	1	,	1	1	1	,	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 97.2

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MURRAY/BUCHANAN AV. NIAGARA FALLS WC NO 27049 MONTH - AUG 10 11 12 13 17 18 20 21 22 23 24 MEAN 1 2 3 4 5 6 7 8 9 0 1 1 2 3 1 1 5 6 7 8 9 1 1 1 2 1 3 4 1 5 6 7 8 9 1 1 1 2 2 2 2 2 2 6 7 8 9 2 3 0 0100000000 0100000000 0.00000000 0-00000000 0-00000000 0100000000 0100000000 1100000000 0-00000000 0100000000 0-00000000 1100000000 0-00000000 0 1 1 0 0 0 0 0 0 0 00-000000 00-000000 0 00011000 1000000 0 0 0 0 0 0 0 0 1 1 1100000000 1100000000 0100000000 0000000000 000000-000 0000000000 1000000000 N000000000 0000000000 -000000000 000000000 110000011 1000000011 -000000000-.000000001 1000000011 100100011 0000-000-0 -00000000 0000000-0 000-0-000-000 0100001010 1000001000 100001 10000000 0-0000-000 0-00000000 00000.0000 1000011 1 010 010 31 0 0 0 0 0 0 0.3

PERCENTAGE OF DATA VALID - 98.7

PERCENTAGE OF DATA INVALID . 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE MURRAY/BUCHANAN AV. NIAGARA FALLS NONTH . SEP STATION . WC NO 27049 24 MEAN HOUR 0. 0000-01 00. 0 6 2 0 12 13 14 15 16 17 18 19 20 000-000 22 23 24 25 26 27 28 29 30 

PERCENTAGE OF DATA VALID - 99.2

MEAN

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE . 0.6

0.7

NOTES 1. " --- INDICATES INVALID CATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - D.C' PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 27049 MURRAY/BUCHANAN AV. NIAGARA FALLS MONTH - OCT BO 24 MEAN HOUR 1 2 3 4 5 6 7 8 9 10 0.0 12 13 14 15 16 17 18 19 20 000050-000 3 1 0 0 00. 00. 22 23 24 25 26 27 28 29 30 a 0000. ò o n 0.4 1. MEAN

PERCENTAGE OF DATA VALID - 90.9

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 8.3

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MELN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	POL	LUTAN	T - 5	ULPH	UR DIO	XIDE							Ĺ	INITS	. 0.0	T PAR	TS/M;	LLION	•						
	STA	TION	- WC	NO.	27049	M	URRAY	/BUCH	ANAN	AV. N	I AGAR	A FAL	.LS			VONT	H - N	VO.	80						
HOUR DAY		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 NI	AN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	000010001000000000000000000000000000000	001101000010030	0 0 1 1 0 0 0 0 1 0 0 1 0	01 1010 00000000	0000011020 0000000000000000000000000000	0000001030	000001103001010	000002101000100020	0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0	002011101000200110	003000000000000000000000000000000000000	004000-000 -0500050	0030011000 10400040	00200:1000 10310000	0010010100	002000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0020000100	0 0 1 0 0 0 0 0 0 0 1 1 1 1 0 2 1	0010000-00	0010000 00 10001000	00-00000000000-000	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010001010
19	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	ò	0	0	1	2	3	3	3	1
21 22 23 24 25 26 27 28 29 30	4 0 1 0 4 3 - 4 0 0	5 0 1 0 3 3 7 3 0 0	4 0 4 3 4 3 0	5 0 3 3 5 3 0	4 0 3 3 4 3 0 0	3000326300	3000339300	30003339300	3 0 0 3 3 6 3 0	2 1 0 0 3 3 6 3 0 0	1001336300	0-00334300	0000333300	0003334300	0203334000	333000	0002533000	0 0 0 3 3 3 4 0 0 0	0003335000	0003344000	0003444001	0003445001	0003544001	0 1 0 3 4 6 4 0 0 1	3 3 5 2 0 0
MEAN	1	1	1	1	3.1	1	1	1	1	1	141	1	1	1	1	1	5	1	1	1	1	3.	1	1	0.9

PERCENTAGE OF DATA VALID - 98.5 PERCENTAGE OF DATA INVALID - 0.6 PERCENTAGE OF DATA UNAVAILABLE - 1.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	· - s	ULPH	JR DIO	XICE								UNITS	. 0	01 P.	Q T 4	11.10	N							
	STA	TION -	WC	NO 2	27049	N	HURRAY	/BUCH	ANAN	AV.	NIAGA	RA FA	LLS			MON	TH -	DEC	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN	
1 2 3 4 5 6 7 8 9	0 1 0 3 5 1 0 1 0	0 1 1 6 3 0 0	0 0 1 1 5 3 0 0 0 1	0010320001	0010550001	0010361011	0 1 1 0 9 4 1 0 1 1	0 1 1 1 5 1 0 1 1	0 1 2 1 7 1 0 0 1 1	0 1 2 0 6 3 0 0 0 1	0 1 2 1 5 4 0 0	1	1 2 0 2 1 1	0 1 1 1 2 0 2 2 1	0 1 1 1 0 2 2 1	0 1 1 1 2 0 2 1 1	0 1 1 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 0 0 1 1	0 0 2 0 0 1 0 1 0 1	0120000001	0 1 2 1 0 1 0 1 1 1	1 0 0 1 0 0 1 1 1	000000000000000000000000000000000000000	1 0 4 4 1 0 0 0 1	0 1 1 3 2 0 1 1 1 1	
11 12 13 14 15 16 17 18 19	1 1 2 0 1 0 2 1 0	1 1 1 0 1 0 1 0 0 1	1 0 1 0 1 1 1 1 0	1 1 1 0 1 0 1 0 0 1 0	1 1 1 0 0 1 0 0 1 0	1011010010	1 1 0 1 1 0 1 1 0	0 1 0 0 0 1 1 0	0 0 1 1 0 1 0 0	1 1 0 0 0 1 1 0	1 2 1 1 0 3 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 1 0 2 1 . 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2 1 0 1	2 1 1 2 0 1 1 0	1 1 1 2 3 1 1 0 0	1 1 1 1 1 1 0 0	0 0 0 0	1 1 1 2 1 1 0 0 0	1 0 0 3 	1 0 1 1 1 1 0 0 0	000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 0	
21 22 23 24 25 26 27 28 29 30	0 0 3 1 0 0 1 3 4 0	0021000420	0 0 3 1 0 0 1 3 2 0	0 0 3 1 0 0 1 3 1 1	0 0 2 1 1 0 1 2 1 0	0 0 3 0 0 1 1 2 2 1	0 0 3 0 0 1 1 2 3 0	0 0 3 0 0 1 1 2 2 1	0120012221	1 0 3 0 0 1 3 3 2	1 0 0 0 1 5 5 2	0 3 0 1 2 6 4 0	0 2 0 1 2 1 3 1 0	1 0 2 0 1 2 4 2 2	1 0 1  1 3 4 3 1	1 0 1 0 1 3 4 3	0010032201	0 0 1 2 2 2 1 0	0 1 2 3 2 0 1	0100123200	0 1 1 0 1 1 3 3 0 0	0 2 1 0 1 1 2 4 0 0	0 2 1 0 1 1 2 5 0 1	0 0 1 2 5 0 2	0 0 2 0 1 1 2 3 1 1	
31	2	1	2	2	•	٠	•	4	6	6	2	2	2	2	2	1	1	1	1	×	1	1	1	:# :	2	
MEAN	1	1	1	1	1	1	1	1	*	1	1	1	1	1	1	1	1		1	1	1	1	1	-1	1.0	

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 1.3 PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DALLY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION -	C NO 27049 MURRAY/BUC	MANAN AV. NIAGARA FALLS		9
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	- 31	0.7	2 .	6
FEB	29	1.1	3	6
MAR	31	0.7	2	6
APR	30	0.4	2	* 4
MAY	31	0.6	2	5
JUN	30	0.5	2	3
JUL	31	0.:7	3	. 7
AUG	31	0.3	1	2
		0.7	2	6
SEP	30		•	·-
OC T	28	0.4	2	5
NOV	30	0.9	5	9
DEC	31	10	3	11
YEAR	363	0.7	5	11

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GR	OUP FREQUE	NCV DISTR	IBUTION FO	R 1980							
POLLUTANT .						u	NITS - 0.01	PARTS/MILL	ION		
STATION -	WC NO 270		RRAY/BUCH	NAN AV.	NIAGAR	A FALLS					
	00 TO 05	Wom 1000	ANNOTES AND PROPERTY.				5 TO 39 40	TO 49 50	SOVER	TOTAL	
100000000000000000000000000000000000000	737	3	0.0 00.00 00.0	1000 0	0	0	0	0	0	740	
JAN							0	0	0	688	
FEB	686	2			0	0			-		
MAR	738	3		)	0	0	0	0	0	741	
APR	707	0	i. 9	)	0	0	0	0	0	707	
MAY	730	c	6 9		0	0	0	0	0	730	
JUN	666	c	i.	)	0	0	0	0	0	666	
JUL	716	7		ò	0	0	o	0	0	723	
AUG	734	c	,	)	0	0	0	0	0	734	
SEP	713	,		5	0	0	0	0	0	714	
oct	676		<b>Y</b>		0	٥	0	0	o	676	
NOV	700	9		0	0	0	0	٥	0	709	
	515.00			1	0	ò	0	0	0	722	
DEC	713					-	0	0	0	8550	
YEAR	8516	33	)	1	0	0	U		U	8550	
FREQUENCY	DISTRIBUT	ION BY PER	CENTILES		DECLIENC	CONCENTR	ATIONS UTION, PERC	FNT			ARITH
	OF DATA	MIN	10	30	50	70	90 9		99	MAX	MEAN
	97.3	0	0.0	0.0	0.0	0.5	1.3 2.	0 2.9	3.8	14.	0.7

155

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

				300			-									1000	and none one								
	ST	ATION	. w	C NO	2705	É	HOLY	TRNTY	CHRC	H NOR	TON/F	PORTA	E, CHI	PPAW	١.	01	TH -	JAN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	1.3	14	15	1.6	17	18	19	20	21	22	23	. 24	MEAN
1 2	3	1	2	2 5	2 2	2 2	2	1	1	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	1
3	0	0	0	1	Ť	0	0	0	0	0	0	٥	၁	0	0	a	U		0	0	0	O	O	1	0
4	2	1	,		1	1	0	٥	0	0	1	1	,	1	1	٥	0		1	1	1	0	0	3	1
5	1	1	0		1	1	3	3	4	3	2	2	1	2 2	1	3	2	1 2	1 2	- ;	- 1	1	3	4	2
6	3	3	1		0	0	0	0	1 3	2	!	1	7	1	3		2	1	1	ì	ò		0	0	2
,	0	0	6	ő		0	0	0	0	ó	0	ò	ò	ò	ò	ò	ò	à	ò	ó	ő	ŏ	ŏ	ŏ	ō
	0	Ö	ő		ő	ő	ŏ	ő	0	2	2	2	2	3	3	1	ĭ	ĭ	ŏ	ŏ	ő	ō	ō	0	1
10	ŏ	ŏ	4				ĭ	2	4	6	3	3	4	4	2	1	1	1	1	1	1	2	3	3	3
11	4	3	3	3	2	2	2	2	2	1	1	1	1	,	3	3	3	2	2	2	2	2	2	2	2
13		2	3	3	2	,	1	- 1	2	ž	2	1		1		2			1	••••					
14												9	5	3	2	2	1	1	1	1	1	1	1	1	
15	1	1	1	1	1	1	2	1	1	2	2	2	2	2	2	1	- 1	1	1	1	0	0	0	1	1
16	1	2	2	2		1	1	1	0	1	1	1	1	1	1	1	0	0	٥	0	0	0	0	1	1
17	1	1	1	2		2	2	3	3	3	4	1	2	1.	1	•	2	3	4	3	6		8	<u> </u>	3
18	5	4	5	5	3	2	3	3	3	4	3	3	3	3	2				••••	0	0			ő	
19	0	••••	****	0	0	0			0	0	0									0	0		0		
20	0	0		••••	0	0	U	****									·				-		25	32	6
21	3	1	1	****		0		****				11	0	- 1	0	0	0	2	1 2	4 2	17	24	25	34	7
22	30	14	9	- 5	••••	0	16	13	6	0	0	0	ő	ō	0	0	ő	้	ő	ő			ō	ō	ó
24	140		!	ò		****			0	ő	0			ŏ	Ö	o			ŏ	ŏ	0			2	
25		2		****	14	4	2	2		1	1	2	3	4	3	4	4	4	3	ĩ	1	1	0	1	3
25 26 27	0	0	0	0				0	0	0	0	0	0	0	0		0		0	0	0	0	0	0	0
27	0	0				0	0		0	0	0	0	3	3	3	2	2		1	0	0	0	0	0	1
28	0	0	0				0	J	0	0	0	0	ō		0	0	0		0		0	0	0	0	ŏ
29	1	1	1	1				0	0	0	0	٥	0	0	1	0	0	0	0	0	0	0	0	ő	Ÿ
30	0	0	C		-		-	0	0	3	,	t	3	-	3	1	_					-		_	
31	. 0	0	C			0	0	0	0	0	0	٥	0	0	0	0	0	٥	0	0	. 0	0	0	٥	0
MEAN	2	2	2	2	1	1	1	2	,	2	1	2	2	1	1	1	í	1	1	1	1	2	2	2	1.4

PERCENTAGE OF DATA VALID - 89.0

PERCENTAGE OF DATA INVALID - 11.0

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES ERANCH

	POL	LUTANT	- 5	ULPH	UR DI	DXIDE	8						ţ	INITS	- 0.0	DI PAR	TS/MI	rrio	N						
	STA	TION -	WC	NO	27051		HOLY	TRNTY	CHRCH	NOR	TON/	PORTAGE	. CH1	PAWA		MONT	ГН - Р	EB	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0 0 0 0 3 2 4 1 1 0	0 0 0 0 2 2 5 1 1 0	0 1 0 0 1 2 3 1 1 0	0 0 0 1 3 1 0 0	0000012110	0 0 0 1 1 1 0	0 0 0 0 2 1 1 1 0	0 0 0 0 0 2 2 2 1 1	0 0 0 1 2 1 2 1 1	2 2 1 2 1 2	0 0 0 1 2 2 1 5 1 2	0 0 0 1 2 2 1 4 2 1	0 0 1 2 2 1 3 2 2 2	2001231222	1 0 0 1 2 2 1 1 1 5	0 0 0 1 2 2 2 2 1 4	0 0 0 1 2 2 5 2 1 8	1 0 0 0 1 1 2 3 2 1 4	0 0 0 1 1 4 2 2 1 3	0 0 0 1 2 6 1 2 1 3	0002251214	1 0 0 1 2 6 1 2 1 6	24	0 0 0 1 1 3 2 2 1 3
11 12 13 14 15 16 17 18 19	4 1 8 5 0 0 0 2 1 8 2	2 1 4 5 0 0 1 2 2 3	1 1 3 5 1 1 0 3 19 3	2 0 3 3 0 1 0 3 27 3	11 0 3 2 1 0 3 25 3	14 0 3 1 1 1 0 2 31 3	0 0 0 0 0 1 35 3	8 0 7  0 0 0 1 33 4	10 10 10 00 00 00 00 00 00 00 00 00 00 0	10 1 3  2 0 0 3 14 6	15 1 4  2 1 0 5 7	1 3 1 2 1 0 7 7	3 1 4 0 1 0 7 5	4 5 0 1 0 9 5 15	4 5 0 1 0 1 7 6 4	3 5 0 1 0 1 6 4	3 48 00 00 53 1	3 5 0 1 0 6 3	5 2 11 0 0 0 0 9 3	6 2 1 B O O 1 O 1 2 4 2	3 1 13 0 0 0 0 23 2	2 19 0 0 0 1 25 2	11 00 00 22 25 24	6 0 0 0 2 21 23	5 2 7 1 0 0 8 13
21 22 23 24 25 26 27 28 29	200120702	10001201602	0 0 1 1 0 21 0	1 0 0 2 1 0 22 0	0001	000100501	0 0 0 0 0 0 0 0 1	10000	1 0 0 1 0 1	1 0 0 0 1 0 1 1 1	0 0 1	00110	0 0 1 1 1 1 1 0	0 0 0 1 1 1 1 1 0 0	0 0 1 1 1 1 1 0	0 1 1 1 1 1 1 1 1 1 1 1	0 5 1 1 1 1 1 1 1 1 1 1	0 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 5 0 17 0	0 1 3 0 5 0 2	0 2 3 0 7 0 2	002200021	0 0 1 2 0 15 0 2 1	0 0 1 1 1 3 4 1 1
MEAN	2	3	3	3	3	2	2	2	3	2	3	2	2	2	2	2	2	2	2	3	2	3	3	3	2.3

PERCENTAGE OF DATA VALID - 98.4 PERCENTAGE OF DATA !NVAL!D - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	-01	COIA		OCT	UN U.											-									
	STA	TION	- WC	NO	27051		HOLY	TRNTY	CHRCH	NOR	TON/P0	DRTAG	E , CH1	PPAWA		TON	тн - :	1AR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7	23 7 6	1 22 7 10 1	22 9 4	1 17 14 3 1 3	2 1 21 11 2 1 2	2 1 21 13 2 1 2	1 1 22 22 2 1 3	0 18 32 2 1	1 9 32 2 1 2	1 6 19 2 1 2 1	1 2 5 12 2 2 4	1 7 8 3 6 4	2 5	1 2 11  2 5	15 9 1 5 2 1	3 22 3 1 8 2 0	2 21 5 7 1 13 2	1 22 4 12 1 8	1 22 9 10 2 1	1 21 9 6 1 2 2	1 14 12 5 1 2	1 19 4 1 2 1 0	1 12 19 3 1 2	1 18 7 3 1 1	1 7 14 11 2 3 2
10	13	6	0	10	11	13	1 16	19	1 14	16	2	2 8	10	2 13	3 20	3 8	3	10	12	16	20 5	13	17	11	5 11
11 12 13 14 15 16 17 18 19	0 0 0 1 0 7 19	1 0 0 1 1 0 7	1 0 1 0 0 0 1 0 1 0 1 3	1 0 0 0 0 0 2 0 9 14	100000057	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 1 0 0 0 0 0 0 0 0 9 3	000000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	1 0 1	1 1 0 1 4 0 9 15	1 1 0 1 2 1 0 1 1 9	1	1 2 0 1 2 1 0 10 4	1 1 1 1 4 1 0 24 6	0000141068	0200122033	0300014122	0 3 1 0 0 1 4 1 2 3	0 1 1 3 2 2 1	0 1 0 1 3 3 2 1	0 0 1 0 2 1 1 2 1 2	0010121341	1000111998
21 22 23 24 25 26 27 28 29 30	0 0 2 1 0 0 6 1 1 2	0 0 2 1 0 0 1 1 0 1	0001000	0 0 1 1 0 0 7 1 1 1 1	0 0 1 1 0 0 3 1 1 1	0 0 1 1 0 0 2 1 1 1	0 0 1 1 0 0 1 1 1 1 1	0 0 1 1 0 0 2 2 1 1	00110003212	0 2 2 0 0 3 2 1 1	0 3 3 0 0 4 2 1 1	0 0 3 3 1 1	01341133311	3 2 1 1 1	0 1 2 1 1 3 1 1 1	0 1 2 1 1	0 1 1 1 1 1 1	0 1 2 1 2 1 2 1 1	0 1 2 1 0 1 1 2 1 1	0 1 2 0 0 7 1 1 2 1	0 1 2 0 0 14 1 1 1 2 1	0 1 3 0 1 4 1 1 2 1	0 1 2 0 0 4 1 2 2 1	0120021223	0 1 2 1 0 2 3 2 1 1
31 MEAN	1	3	3	3	2	o 3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	3	3	2	3.0

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - 5	ULPI	HUR DI	301XC							(	INITS	- 0.0	D1 PAF	RTS/MI	FFIO	N							
	STA	TION	- wc	NO	27051	9	10LY	TRNTY	CHRCH	NOR	TON/PO	ORTAGE	. CH1	PAWA		MONT	Гн - Д	PR	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN	
1 2 3 4 5 6 7 8 9 10	0 8 1 1 1 13 1 2 1 0	0 8 1 1 1 1 1 1 2 1 1 1 1 4 2	0 8 1 1 1 8 2 2 4 1 4 2	0811152204	0 9 1 1 14 2 2 3 6	0 5 1 1 3 1 1 1 1 1 5 2	0 9 1 1 2 2 1 1 1 3 5 2	1 5 1 1 2 2 1 1 5 3 2	1 3 1 2 1 2 3 1 5 2 2 3	2 2 2 1 1 3 1 7 2 2 1	2 2 2 2 1 3 1 6 2 0 1	2 2 1 1 1 4 2 9 3 2 2	1 1 2 5 0 7 3 4	1 3 2 1 1 3 10 2 3 3 3 8	1 3 2 1 1 3 9 1 6 3	8 5 2 1 1 3 1 7 1 9 5	13 5 2 1 1 4 26 1 2 8	6 6 2 1 1 2 1 2 1 1 9 8 2	5 15 2 1 1 2 4 1 0 13 4 1	3 13 1 1 1 2 12 12 1 0 13	2 7 1 1 12 1 18 1 0 18	5 3 2 1 18 1 16 1 7	8 2 2 1 14 1 3 1 0 7	811912218 : 8	3 6 1 1 3 4 7 1 3 6 26	
13 14 15 16 17 18 19	7 2 3 1 2 8 3 16	6 1 7 1 2 14 2 18	1 5 1 2 11 17	11 1 2 11 2 3	10 10 17 14 1	1 16 1 1 1 1 1	1 9 0 1 14 3	505538	1 4 1 14 4 3 3	1 0 3 1 1 2 5 3	1 1 3 1 7 2 6 3	2 1 0 3 10 2	1 0 3 1 9 3 27 2	1 0 3 1 9 7 13	1 0 12 1 1 5 13 2	1 0 14 1 17 4 18	1 0 20 1 36 44 12 2	1 0 10 1 23 20 22 2	1 0 5 1 22 29 23 2	0 1 7 1 23 22 13	1 2 3 1 19 18 11	1 1 1 1 5 1 5 1 5 1	3 0 1 13 3 18 2	2 1 1 12 3 12	1 7 1 11 10 5	
21 22 23 24 25 26 27 28 29 30	1 5 1 1 6 3 1 0 2	2311023111	1 2 2 1 0 2 4 1 0 2	1 1 1 1 1 1 1 1 1 1 1 1	2 1 2 7 0 5 3 1 1 1 1	1 0 6 4 1 0 0	20 2 1 1 0 5 6 1 1 0	1 2 2 1 0 5 5 0 1 0	0 2 3 1 0 6 3	1 2 1 1 0 4 3 0 1 0	0 2 2 0 3 3 1 0 1	2 2 2 2 3 1 1	3 3 1 1 2	2 2 2 1 2 3 4 0 1 2	2 2 2 1 5 3 3 0 1 2	4 2 2 1 4 3 2 1 2 2	15 22 25 21 04 2	8 2 2 7 2 1 0 3 2	19 2 1 2 6 3 1 0 2	9 2 1 2 6 4 1 1 2 1	2 1 2 1 0 3 1 0 2 1	1 1 2 1 2 1 2 1 0 3 1	5 2 1 1 12 3 1 0 6	7 1 1 8 3 1 1	62224333121	
MEAN	- 2	2	2	2	4	3	4	2	3	2	2	,	3	3	3	5	7	5	6	5	5	5	4	4	3.7	

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3, \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS MILLION

	STA	TION .	WC	NO	27051		HOLY	TRNTY	CHRC	H NOR	TON/PO	CRTAGE	, сн1	PFAWA		MONT	TH - 5	ΔY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 4 21 10 10 1	1 7 25 0 11 1 1 4 0 6	1 5 24 1 10 1 1 3 0 8	1 6 15 2 16 1 2 1 0	1 8 19 3 11 1 1	1 7 14 4 4 1 1	0 11 20 4 7 1 2	. 6 12 2 14 1 1	ĭ	0	0 10 13 1 10 0 1 2	1 15 2 10 1 1 3	5 27 8 5 8 1 1 2 3	9 14 15 8 8 1 1 4 4 6	2 12 14 16 7 1 2 3 2 8	10 11 9 15 7 2 3 2 6	9 4 6 8 10 1 1 3 3	2 3 5 5 1 1 1 4 2	1 2 2 9 7 16 0 1 3	10 3 9 6 16 0	9 2 1 14 6 18 0 2 3	5 7 1 28 2 5 0 3 8 1	4 9 1 28 1 3 0 2 11 1	5 8 0 9 1 2 0 1 10 1	3 8 11 7 8 4 1 2 2
11 12 13 14 15 16 17 18 19 20	41100000000	10 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 1 1 0 0 0 0 1 0	3 1 1 0 0 2 0 0 1 0	4 1 1 0 0 2 0 0	5 1 0 4 3 0 0 1	4 1 0 0 6 1 0 2 1 0	4 1 0 0 1 2 1 4 1 0	13 1 0 0 0 2 2 8 1 0	18 1 0 0 0 3 3 10 1 0	8 2 0 0 0 3 2 9	4 4 0 0 0 2 1 7 1 1	4 7 0 1 0 1 2 12 1	3 1 1 4 4 2 11	77 755 1 27 20	3 4 3 5 12 1 1 2 15 0	99 10 14 17 12 0	2 3 2 0 8 1 5	2 3 0 10 1 2 9 3 1	0 11 1 9 2 1	1 5 4 0 2 1 1 9 2 2	1 0 1 1 1	1 0 1 1 2 1 3	2 1 5 0 0 0 0 0 9 1 2	5 3
21 22 23 24 25 26 27 28 29 30	2 13 9 0 1 0 1 1 1	2 17 10 0 1 0 1 1 1 2	1 12 10 0 1 0 1 1	1 9 5 0 1 0 1 1 2	1 25 9 0 0 1 1	1 5 24 9 0 0 1 1	2 12 25 8 0 0 1 1		3 13 23 3 1 0 1 2 2	4 10 20 4 1 0 1 3 1	3 14 7 8 1 0 1 5	2 12 6 4 1 0 1 5	2 11 5 5 1 2 1 4 2 14	2 12 4 5 1 2 2 2 9	285512222212	8 7 6 5 1 2 2 2 2	8 9 3 8 1 2 1 2 2 3	14 12 2 13 1 2 1 2 2 3	8 12 3 11 1 2 1 3 2 2	11 17 5 6 2 3 1 2 5	9 20 2 10 1 2 6 2 1 6	23 21 7 1 2 3 2 1 2	25 16 0 6 1 2 3 1	27 17 1 2 1 2 1 1 2 3	7 12 9 6 1 1 2 2
31	2	2	3	7	9	8	9		8	8	7	9	10	10	6	8 5	, 5	8	7	8 5	3 5	2 5	4	4	4.2
MEAN	3	3	3 ·	3	4	4	4	4	4	4	4	4	5	5	5	9	9	4	4	5	-	9	-		

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	r . s	ULPH	UR DIC	STIKE							L	INITS	- 0.0	01 PA	RTS/MI	LLIO	N						
	STA	TION	- WC	NQ	27051		HQLY	TRNTY	CHRCH	NOR	TON/P	ORTAG	E. CHI	PAWA		MON	TH - J	UN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	2011000510	10200004+0	1 2 0 0 0 0 2 5 0	1 1 2 0 0 1 0 1 6 0	1 0 2 0 7 0 1 6 0	0 3 0 0 1 0 1 8 0	1020050100	100030	1 3 0 0 3 15 0 0 2 0	8 1 0 2 9 0 0 0	9 0 0 2 8 1 0 5	2 12 0 1 1 5 2 0 3	3 8 1 1 0 1 2 0	2 8 1 1 1 3 0 1	1 10 1 1 2 5 3 0 1	3 3 2 0 1 0	21120341010	2 9 2 0 2 2 5 0 1	2 11 0 2 3 11 0 1	1 8 1 0 2 3 5 0 1 0	1 4 1 0 1 1 4 0 1 3	1 1 0 1 4 0 1 7	3 2 1 0 1 3 0 1 3	1 1 0 0 0 7 0 2 2	1 5 1 0 1 4 2 1 3
11 12 13 14 15 16 17 18 19 20	1 0 6 8 6 0 0 4 3	1 0 11 4 5 0 0 3 2 2	1 0 13 7 5 0 0 3 1	0 8 4 7 0 1 1	0 3 3 8 0 1 2	0 5 3 7 0 1 7 0	0044301510	9 2 0 2 1 1 0	0 3 8 19 2 1 6 7	1 7 6 10 3  5 7	1 8 10 14 8 1 3 6 5 0	2 7 10 13 13 0 3 6	3 4 12 12 10 0 4 6 13	10 11 8 1 4 9	10 5 3 1 5 6 12 0	8 12 8 2 1 10 9	5 5 2 5 2 1 8 7 6 0	5 8 5 1 2 16 7 4 0	6 5 10 1 2 16 5 4 0	5 4 11 7 1 3 23 2 4	10 4 11 10 0 2 13 2 3	9 15 8 0 1 17 2 7	9 12 0 1 21 1	5 4 11 0 1 8 2 2	4 3 9 8 4 1 7 5 1
21 22 23 24 25 26 27 28 29 30	0 5 4 16 8 6 0 1	0 8 5 14 9 0 1	0 16 7 3 5 4 0 2 0	0 19 7 4 4 2 0 1	2 21 3 3 15 0	7 14 3 2 2 7 0	7 11 4 2 4 19 0 1	3 12 10 4 7 25 0	12 10 11 12 0 1	9 15 9 7 1 0 2	2 6 6 10 8 11 1 0	3 6 15 9 9	4 5 10 4 13 9 1	9 5 20 8 9 6 1	10 4 14 12 9 4 2 1 7	11 5 11 7 5 4 2 1 9	11 6 10 9 3 2 1 :5	13 5 8 6 4 2 1 12 2	12 10 6 7 6 4 2 1	18 6 8 10 8 2 1 3	12 6 15 8 13 3 2 1 2	11 5 19 9 10 1 1 2	8 4 16 9 7 1 1 2 2	5 3 22 10 6	6 8 10 7 7 7 1
MEAN	3	3	3	2	3	2	3	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	3	4.0

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 PARTS, MILLION

	PUL	LUIAN		OLFH	UR D11	JAIDE								0.11	0				1.77						
	STA	TION	- wc	NO	27051		HOLY	TRNTY	CHRCH	NOR	TON/P	ORTAG	E.CHI	PPAWA		MON	тн	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1 7	16	19	20	21	22	23	24 1	MEAN
1	2	6	15	2	3	9	5	5	4	6	9	10	10	8	10	9	8	10	6	3	3	3	4	4	6
2	7	8	9	11	11	7	6	6	3	2	2	2	2	3	3	3	2	2	2	1	0	a	0	0	4
3	0	0	0	- 1	1	0	1	4	5	3		3	2	2	3	3	3	4	6	6	9	5	4	3	3
4	2	4	6	8	5	9	8	5	2	3	3	6	13	13	15	9	6	9	8	9	14	5	3	10	7
5	15	5	2	5	4	8	8	9	15	10	9	8	7	5	4	G	10	3		2	2	2		1	6
6	1	1	- 7	- 1	1	ī	ō	1	1	1	1	1	1	1	2	2	2	3	2	3	2	1	1	7	2
7	14	10	- 4	9	â	0	6	5	4 .		8	8	12	9	5	ß	8	11	16	10	9	12	9	12	8
é		6	- 4	4	4	4	3	7	6	3	3	2	3	9	4	4	4	4	4	4	3	3	2	2	4
	9	Ă	ž	2	1	0	ō	1	2	2	6	5	10	9	4	3	7	6	5	6	4	4	3	4	4
10	4	2	.1	1	i	ĭ	ŏ	ò	ī	3		••••	3	4	8	13	14	16	18	16	30	29	18	36	10
11	31	28	18	21	28	15	6	10	18	14	13	11	11	13	12	6	4	4	4	4	3	2	2	3	12
12	2	2	1	2	2	2	1	1	,	1	1	1	2	2	5	6	7	7	6	7	3	2	2	1	
13	- 7	ō	0	ō	0	ō	0	î	1	1	1	- 1	2	2	2	2	3	5	6	7	5	3	3	4	2
14	11	10	3	2	2	2	7	11	5	3	12	12	1.2	1.7	14	17	10	15	16	11	6	5	5	6	9
15	6	5	6	10	1.3	18	11	12	17	11	4	5	8	14	7	10	13	11	11	9	6	7	10	12	10
16		5	3	4	5	5	11	4	3	3	3	10	7	3	3	3	7	11	11	6	1	1	0	1	5
17	'n	ŏ	ŏ	o	0	ō	ō	0	ō	1	2	2	2	2	2	2	2	4	2	2	2	2	1	1	1
17 18	0	ŏ	ŏ	ŏ	ō	ŏ	ō	2	9	7	6	7	5	3	6	14	13	13	6	10	8	1	1	0	5
19	2	3	3	13	ž	9	14	12	5	12	15	12	12	13	15	6	7	10	1.1	19	10	6	6	8	9
20	8	8	9	12	11	10	12	13	12	6	6	4	6	17	23	11	15	17	14	4	2	1	2	8	10
21	7	5	3	2	3	7	4	6	6	8	7	4	5	5	8	23	33 18	10	13	14	11	9	6	6	9
22	7	12	6	4	2	2	2	2	1	2	2	2	4	7	В	16	18	15	18	17	11	10	5	1	7
23	3	2	3	1	0	0	0	0	1	0	0	1	1	3	12	17	6	2	3	2	1	1	0	٥	2
24	0	0	1	0	0	1	2	1	1 *		2	ı	1	1	1	2	19	11	7	7	5	7	3	4	3
25	7	4	11	11	9	1	1	2	8	10	10	10	11	15	12	10	7 1	7	8	12	25	27	24	30	12 6 3
26	22	18	8	3	7	6	7	7	11	9	9	7	10	4	3	3	3	3	4	8	2	1		0	6
27	0	1	1	1	٥	0	0	1	1	3	4	5	9	6	6	5	5	6	7	8	3	2	2	1	3
28	1	1	•	1	1	1	- 1	0	1	1	1	1	1		4	4	4	4	4	5	6	8	4	7	3
29	11	9	9	12	8	5	4	4	4	4	5	5	7	10	9	11	5	8	6	4	3	2	2	2	6
21 22 23 24 25 26 27 28 29 30	2	2	2	2	2	2	1	1	2	2	2	2	4	4	4	4	4	4	4	5	14	7	3	3	3
31	2	2	3	2	2	3	3	3	5	6	4	5	11	8	8	5	7	5	4	4	3	3	3	3	4
MEAN	6	5	4	5	4	4	4	4	5	5	5	5	6	7	7	8	8	8	8	7	7	6	4	. 6	5.7

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUT	INT -	SULP	HUR D	OXIO	E							UNITS	s · o.	01 PA	ARTS/	MILLIC	N							
	57	ATIO	. w	C NO	2705	1	HOLY	TRNTY	CHRC	H NOF	TON/F	PORTA	GE . CH	PPAWA	Δ.	MON	HTH -	AUG	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	3	3	4	4	4	4	3	3	4	5	5	5	5	5	6	8	11	12	12	10	11	10	4	8	6	
2	6	10	12	10	8	5	5	5	5	6	11	12	13	14	15	15	7	4	4	4	5	4	4	4	В	
3	4	3	3			3	3	3	4	4	5	4	6	8	15	7	15	12	11	11	8	12	5	4	6	
4	4	3	2		2	2	3	3	3	3	3	4	4	4	4	5	5	5	5	5	4	4	4	3	4	
5	3	3		3	3	3	3	4	6	9	9	11	9		8	9	10	11	13	6	2	1	2	1	6	
6	2	7	4		2		2	2	2	2	3	5	7	7	7	5	5	9	21	23	7	3	3	9	6	
7	17	14		. 6	ā	4	3	6	6	6	4	4	6	3	3	2	2	1	1	0	0	0	0	0	4	
Ŕ	o	. 0		6	8	0	3	6	4 3 6 2 6	2 6 0	0	1	6	7 3 4	5	5 9 5 2 6	5	1 4	5	23 0 5	3	3 0 5	5	10	3	
ă	2	2	•	ĭ	,	2	5	1	ĭ	1	1	2	2	2	7 3, 5	3	10 5 2 5 3	3	3	4	2	1	1	1	2	
10	ō		ċ		Ó	7		ò	ò		1	1	2	5	2	2	1	1	1	1	- 1	1	1	1	1	
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11	0	0			9	0	0		4	0	0	1		2	2	3	6	5	3	3	3	2	5	3	2	
12	4	3		. :		·	·	1	- 1	ĭ	ĭ	- 1	Ŷ	- 7	•	- 7	- 7	- 7	ī	ĭ	٠,	- 7	3	- 7	7	
13	ō	ຸ	á		ò	ò	÷	ò	ò	ò	ò	4		3	À	À	À	2	7	4	•	2	3	9	2	
13		ž		2		3		3	2	3	4	ခဲ		ĭ	- 7	- 7	1	- 1		- 7	7	7	ī	- 7	5	
19	- 2				- 1		- 4	•	3	7	7	5		,		,	2	2	÷	2	2	2			- 7	
15	- 1	- 1					- 1	1		- 1		- 1	2	1	1	៊ី	1	2		•	1	î		- 4	•	
16	- 1	- 1				- 3	- 1	- 1		- 1	- 1	į	-	Ļ	- 1		4	2	2	2	2	2	2		,	
17	- 1	- 4			1	- 2	- 4	1	2		3			3 2	3	3	3	3	3	-		5	2	•	5	
18	2	2	2	2	2	2	2	2	2		- 2	6	2	3	5	7	3	6	3		2	4	10		3	
19	2	2	2	2	-	- 2	2		2	3		3	- 1	- 4	3		3	2		۰	- 3	7			3	
20	2	2	- 4	. 3	2	,	,	2	4	3	9	4	4	4	3	-	-	-			- 1				4	
2.2		2			. 20	_	- 2		42	1	2	2	3	2	2	3	3	3	2	2	2	2	2	2	•	
21	1	1	1	1		7	3	3		- 1	2			INVA		3	3		-	-	- 2		•	•	•	
22							•					- 6	UAIA	INVA				*		79	19	4		- 1	1	
23	****	••••	****		0	٥	٠	٠		- 1	- 1	- 1	- 1		- 1		- 1							***!	- 1	
24	1		1	0		- 1		!	-22		- 1		- 1		- 3	,	- 3	4		-	•	2	3	•		
25	****			••••	••••	****					2	- 4	3	- '												
26	2	- 2	2	2 2	3	6	4	2	3		2	3				- 1 - 1										
27	••••	****	****		2	10	6		3	2								0	0			0				
28	••••	••••		• • • • • •	••••	****			••••									ž	Š	ŏ	0	- 3		- 6		
29	0	0			0	0	. 0	0	0		!		5							2	2	2	2	5	2	
30	2	2	2	2 2	2	2	2	2	2	2	****						****		,	- 1	,	- 4		-	-	
31	3	3		3	3	3					••••						6	8	6	3	2	2	2	2		
MEAN	100	3				2		,		,	3	3	4	3	4	4	4	4	4	4	3	3	3	3	2.9	

PERCENTAGE OF DATA VALID - 85.1 PERCENTAGE OF DATA INVALID - 14.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS/MILLION

×	STA	TION	- wc	NO	27051	)	HOLY	TRNTY	CHRC	H NOR	TON/P	CRTAC	E.CHI	PPAWA		E:ON	тн -	SEP	80						
HOUR	ī	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9 10 11 12 14	4 2 2 0 13 14 0 2 1 1	5210730111	5200220011 1304	3210120011	2210190012	2210120011	2 2 0 0 1 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 1 5 0 0 1 1 1 0 1 1 2	1 1 2 0 0 1 1 1 1 1	2 2 0 2 2 2	2 1 1 3 2 2 0 1 0 1 0 : 3 1	230672121	2 8 0 6 9 2 1 2 1 1 1 1 2 2 1	2409421301	2 2 4 2 1 3 1 1 1 2 3 .	2 2 2 1 8 1 2 1 1 1 2 2 1 1	2 1 2 8 1 1 1 1 1 1 1 1	2 1 3 4 1 1 2 2 1 1	2 2 3 9 1 1 10 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	217 23 16 1 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28031601111	2 11 0 4 3 0 1 1 1 1 2 4	2 6 0 8 9 0 1 1 0 2	2 5 0 20 18 0 1 1 0 3	2415531111
15 16 17 18 19	1 2 1 4 2	10 1 1 2 0 7 2	1 2 1 8	1 1 2 1 8 2	1 2 1 20 3	1 1 5 1 30 4	0 1 3 0 23 7	1 3 1 5	3 0 2 3 1 4	0 3 4 1 4	1 4 5 1 2 7	13 3 1 2 11	10	1 11 2 1 3 9	1 7 2 1 6	1 9 2 1 3 4	3 2 3 3	2 2 3 7 8 3	0 2 2 3 4 8 3	3 3 3 3	1 2 2 1 2 9	0	5 1 0 1	1 1 2 1 2 6	1 4 3 1 7
21 22 23 24 25 26 27 28 29 30	2 2 4 1 2 8 1 1 4 5	2 3 1 2 3 1 1 2 1 3	2 3 1 1 2 2 1 1 2 1 4	2 2 1 2 2 1 1 2 10	2 2 2 2 3 1 2 9	2 4 1 4 2 3 1 3 10	3 1 3 2 3 1 3 5	3 4 0 1 4 2 3 1 3	5 2 0 1 3 2 4 1	7 2 0 1 5 2 5 1 1	10 3 1 1 4 2 6 1 1 1 3	9 3 1 2 4 2 10 1 0 8	1 2 12 0 11 1 0	18 5 1 2 10 9 1 8	13 5 1 3 9 0 12 1 7	11 4 1 2 11 0 13 1 5 10	14 4 1 2 9 0 5 2 5 9	13 2 2 4 0 3 3 12 4	8 4 2 2 3 0 2 3 7 0	63 12301460	6 1 1 2 5 0 1 4 8 0	5 3 1 2 5 0 1 4 8 0	4 2 1 2 5 0 1 4 2 0	3 6 1 2 7 0 2 4 1 0	6 3 1 2 5 1 4 2 4 7
MEAN	3	3	2	2	3	3	3	2	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3.0

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1, \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "." INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTANT	• S	ULPH	UR DI	OXIDE								UNITS	- n	nt PA	RTS/M	11.1 10	N						
	ST	ATION -	WC	NO	27051		HOLY	TRNTY	CHRC	H NOR	TON/P	ORTAG	E,CHI	PPAWA		MON	тн - с	oc t	80						
HOUR DAY	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 8 0 0 0 1 2 2	1 6 0 0 2 2 2	00040123	0 0 0 3 0 1 2 7	0 0 4 1 1 2 16	0 1 0 2 1 1 2 2 2 0	0 3 0 3 4 1 2	0 1 0 3 1 1 2 10	5 0 1 0 1 2	12 0 2 1 0 2 8	15 0 1 1 0 4 2 6	12 0 1 1 1 3 2 4	10 0 3 2 4 6 2	8 0 8 1 1 5 2	11 0 11 1 6 4	8 0 9 1 1 16 12	8 0 1 0 12 11 6	14 0 1 0 3 10 6	2 0 2 1 0 2 10 3	5 0 3 1 0 3 11 2	7 0 3 1 0 4 11	9 0 7 1 0 4 11 2	8 0 3 1 1 3 7	8 0 3 1 0 4 2	6 1 3 2 1 4 5 6
10	0	0	0	3	1 3	0	0	2	1 2	3	2	2	1	5	9	9	3	1	5	10	7	3	1	1	2
11 12 13 14	0	3 0	7 0 0	0	1 0 0	3 0 0	5 0 0	23 0 0	7	7 0 1	9 0 1			13 O I INVAL		1	5 1 1	3 1	1	0	0	1	1	1	5 0
16 17 18 19 20	0 1 0 1	0	0 1 1 1	0 1 1	0 1 1	0	1 1	2 1 1	4 1 1	6 1 1	3 6 1	3 6 1 1	5 1 1	3 0 1 0	0 3 0 2 0	0 8 0 2	6 0 2 0	0 3 0 2 0	0 3 0 2 0	0 4 0 2 0	0 2 0 3 0	0 2 0 3	0 3 0 3 0	0 3 0 3	3 1 2 0
21 22 23 24 25 26 27 28 29	0 0 0 1 0 0 1	0 2 1 0 1 0 0 0 0 0	1 0 5 0 1 0 0 0 0	1 0 3 0 1 0 0 0 0 0 0	1020100000	0 1 2 0 1 0 0 0 0	00-000000	0 0 1 0 0 0 0 0	000-000000	0000000	00000	000200001	0 0 1 3 0 0 0 2 0 1	0 0 0 0 0 0 0 1	00000001	0 0 0 1	0001001	0 0 2 1 0 0 0 0 0 1	0 0 3 1 0 0 1 0 0 1	0001001	0011000004	0011000004	0 0 0 1 0 0 4 0 0 1	0 0 0 1 0 0 0 1	000000000000000000000000000000000000000
31	0	o	1	1	1	1	1	t	1	0	0	٥	0	٥	0	1	1	2	2	0	0	0	0	1	1
MEAN	1	1	1	1	1	5	1	2	2	2	2	2	2	2	2	3	2	2	1	2	2	2	1		1.6

PERCENTAGE OF DATA VALID - 91.5 PERCENTAGE OF DATA INVALID - 8.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. '-- INDICATES DATA IS UNAVAILABLE
    - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE HOLY TRNTY CHRCH NORTON/PORTAGE, CHIPPAWA SONTH - NOV STATION - WC NO 27051 24 MEAN HOUR 0 9 1 1 2 3 4 5 6 7 8 9 10 024-30 OBECCO 2 13 0 12 13 14 15 16 17 18 19 100000-0-0000-0940-00405 22 23 24 25 26 27 28 29 16 02 - 00 00 00 13 05 1 0 0 0 0 0 0 21 0 2 0 0 1 0 0 0 0 MEAN 

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - O OL PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE HOLY TRNTY CHRCH NORTON/PORTAGE, CHIPPAWA MONTH - DEC STATION - WC NO 27051 24 MEAN HOUR 0202000-00 00000-0400 0 7 20006-0 0--00 11 12 13 14 15 16 17 18 19 20 08:0104000 30:0620300 0 9 0 3 -0000 22 23 24 25 26 27 28 29 30 24 0 0 5 1 0 0 2 0 ò U MEAN

PERCENTAGE OF DATA VALID - 94.0

PERCENTAGE OF DATA INVALID - 6.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1990

STATION - WC NO 27051 HOLY TRNTY CHRCH NORTON/PORTAGE.CHIPPAWA

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, WILLION

C	e une entere transfer regroups	ENVIOLENT OF THE PARTY OF THE PROPERTY OF THE	a come	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
MAU	26	1.4	7	32
FEB	29	2.3	13	35
MAR	31	3.0	14	32
APR	30	3.7	* 1	44
MAY	31	4.2	12	28
JUN	30	4.0	10	25
JUL	31	5.7	12	36
AUG	25	2.9	8	23
SEP	30	3.0	7	30
OCT	28	1,6	6	23
NOV	30	1.8	6	21
DEC	29	1.4	8	24
YEAR	350	3.0	14	44
	a contract of the contract of			

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

### MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

0

96.1

MONTHLY G	HOUP FREQUE	NCA DIZII	STRUTTON FO	H 1980					
POLLUTANT	- SULPHUR C	HOXIDE				UNITS - 0.0	1 PARTS/MI	LLICN	
STATION -	WC NO 270	51 H	LY TRNTY C	HRCH NORTO	PORTAGE,	HIPPAWA			
MONT	H 00 TO 05	06 TO 10	11 70 15	16 TO 20	21 TO 25	26 TO 39 4	O TO 49 5	O SOVER	TOTAL
MAL	639	1:	2 5	2	2	2	٥	0	662
FEB	618	31	1.4	9	6	5	٥	٥	685
MAR	627	46	3 28	20	15	2	. 0	0	738
APR	578	69	39	19	7	4	1	0	717
MAY	537	1113	53	17	11	4	0	0	739
JUN	512	131	54	13	5	0	0	0	715
JUL	440	178	8 65	21	6	9	0	0	739
AUG	553	5	7 20		2	0	٥	0	633
SEP	608	61	7 27	9		1	ن	u	/15
ост	623	39	15	3	•	0	٥	0	681
NOV	637	59	19	2	1	0	٥	0	718
DEC	649	33	7	4	2	0	О	0	699
YEAR	7021	843	366	120	61	27	1 1	0	8439
FREQUENCY	DISTRIBUTE	ON BY PE	RCENTILES						
	PERCENT OF DATA				JENCY DISTR		CENT		
	VALID	MIN	10	30 50	70	90	95 08	99	MAX

0.1

0.9

0.0

8.1

11.5

16.4

20.3

2.3

ARITH MEAN

3.0

44

POLLUTANT - SULPHUR DIOXIDE

	STAT	TION -	WC	NO 2	8025	F	ARQUHA	R/WY	MAHOM	ST.	GUELP	н					37	CNTH	- 40	JG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	1.3	2	: 3	14	15	1	6	: 7	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9												- 0	ATAC ATAC ATAC ATAC ATAC ATAC	U	AVAILAVAILAVAILAVAILAVAILAVAILAVAILAVAI	48LE 48LE 45LE 46LE 46LE 46LE											
11 12 13 14 15 16 17 18 19												- 0	ATA ATA ATA ATA ATA	UNA UNA UNA UNA UNA	AVAILAVAILAVAILAVAILAVAILA	ABLE ABLE ABLE ABLE ABLE ABLE ABLE	•										
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 000000004	. 0 0 0 0 0 0 2	00000000	. 00000000	00000000	. 000000012	. 0 0 0 0 0 0 0 2 1	00001011	000000000000000000000000000000000000000	(		000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000	***	0000000011	0 0 0 0 0 0 0 1 1 1	0-0000001-1	0 2 0 0 0 0 1 1 1	0300000001	1	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1200000031	0 0 0 0 0 1 1
31 MEAN	0	0	0	0	0	ó	0	0	0	0	٥			0	0	0		1	0	1	1 .	1	1	1	1	1	
PERCENTA	-	- 170	-			•			TAGE (	120				(S)	. 3						DATA						

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \* \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - 5	ULPH	UR 010	XIDE							,	INITS	- 0.0	1 PAF	RTS/MI	LLIO	N						
	STA	TION	· wc	NO 2	28025	F	ARQUH	AR/WY	NDHAN	ST.	GUELPH	1				HON	н - 5	EP	80						
HOUR	. 1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	00000010	000000010	000000000	000000000	0000000000	000000000	000100000	0 0 0 1 0 0 0 1 0	0001000100	0001000100	000-000-00	0001000000	000-000000	0001000000	000-00000	0000000000	000000000	000000000	000000000	00000000000	0000000000	0000000000	0 0 1 1 0 0 0 1 0 0	0000000100	0 0 0 1 0 0 0 0 0
11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 0 0	0000010000	0000-0000	0000000000	000000000	000000000	000000000	0000010010	000001000	0000000000	000000000	000000001	000000000	0000000000	0000000000	0 1 0 0 0 0 0 0 0 0	0 3 0 0 0 0 0 0 0	0 7 0 0 0 1 0 0 1 0	0 0 0 0 0 0	0 1 0 0 1 0 0 0	0 0 1 0 1 1 0	0 3 0 0 1 0	010000000	C0000000	00000000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 1 1 0 1 1 0 1	0 0 0 0 1 1 0 1	0 0 0 0 1 1 1 1 0 1	0 0 0 0 1 1 1 0 0 1	0 0 0 0 1 1 1 0 0 1	0 0 0 0 1 1 0 0 1	0 0 0 1 1 1 0 0 1	0 0 0 0 2 0 1 1 1 2	00021	3 0 0 0 1 1	0 0 0 1 2 0 0 1 1	00001	0 0 0 1 1	0 0 0 1 1	0 0 0 1 2 0 0 0 1 1	0000	00001	0 0 0 1 1	0 0 0 0 1 1	0 0 0 0 0 0 0 2 1	0 0 0 0 0 0 2 1	0 0 1 0 0 0 1 1	0 0 1 1 0 0 1 1	0 0 1 1 0 0 1 1	0 0 0 1 0 0 0 1 1
MEAN	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	1	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*\*\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN CHE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- MC	NO	28025	1	FARQUH	AR/WY	NDHAM	ST.C	UELPH	•				MONT	Th - 0	130	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	IEAN
1 2 3 4 5 6 7 8	1011001	1 0 1 1 0 0 1	1010001101	1 0 0 0 1 1 0 0	1 0 0 0 1 1 1 0 0	1 0 0 0 0 1 1 1 1 1	1 0 0 0 0 1 1 1 1 0	0 0 0 1 1 1 1 1 1	1000001	10000011	00000000	0 0 0 0 1 1 0 0	0 0 1 0 1 1 1 0 0	0010110110	0 0 1 0 1 0 1 0 0	0 0 1 0 1 1 0 1 1 0	000,110:11	0301010110	0 0 1 1 0 0 1 1 1 0	0 0 0 1 0 0 1 1 1 0	0110001010	0210001010	0 1 1 0 0 0 0 0 1 1	0010000011	0000
11 12 13 14 15 16 17 18 19	0000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	0000001000	0 0 0 1 0 0 0	0 0 0 0 1 0 0 0	000002310000	00000	0000	000010000	0000000000	000000000	0000700000	000070000	00000800000	000000000	0000-00000	00000000	000000000	000000000	0000000000
21 22 23 24 25 26 27 28 29	0000000000	000000000	000000100	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000	002000000	0041000000	100000	01000000	010100000	0002001000	0031000000	0141000000	0 1 1 0 0 0 0 0 0 0 0	0 1 1 1 0 0 0 0 0 0 0 0	0 1 1 1 0 0 0 0 0	0 1 1 0 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	.0	0	0	0	,	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	٠.	SULPH	UR DIO	XIDE							1	UNITS	- 0.0	)1 PAI	RTS/MI	1110	•						
	STA	TION -	WC	NO	28025		FARQUH	AR/WY	NOHAM	ST,G	UELPH	E				NON	тн - м	OV	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 1 0 0 0 0 0 0	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	001000000	0 0 0 0 0 0 0 0	002000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 3 0 0 1 1 0 0 0	0000	0 0 4 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	00000000	0110000000	0 200000000	0000000000	0000000000	000000000000000000000000000000000000000	0010000000
11 12 13 14 15 16 17 18 19 20	0000001000	00000-000	0000001000	000000000000000000000000000000000000000	00000-000	00000000	0 1 1 0 0 0 1 1 0 0 0	0010001000	0 1 1 0 0 1 1 0 0 0	0200001000	0 0 0 0 0 0 0	0-00000000	100000000	. 000000000	0000004000	000001000	00000000000	0000000000	0000010000	010000000	0100000000	0000010000	0000-0000	000000000	000001000
21 22 23 24 25 26 27 28 29 30	000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000	000000000	000000000	00000000		0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	000000000	0000000000
MEAN	0	٥.	0	0	0	0	0	0	0	0	0	٥	0	0	0	٥	0	ú	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 89.4 PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT	- s	ULPHU	R DIO	SOIN								UNITS	- 0.	G1 PA	RTS, M	ILLIO	N							
	STA	TION -	wC	NO 2	8025		ARQUHA	R/WY	NDHA	M ST.	GUELF	н				∵ON:	тн -	DEC	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	187	MEAN	
1 2 3 4 5 6 7 8	00000	0 0 0 0 1 0 0	00000100	0 0 0 0 1 1 0	0	0 0 0 0 0 1 1 0	0 0 0	0000010	0 0 0 1 0 1 0	0000	0 0 2 0 0 2		0 0 0 1	0 0 1 0 2	ID -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0004007	0000	000000000000000000000000000000000000000	0 0 0 4 0 1	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0	0000		0001101
11 12 13 14 15 16 17 18 19	000	000	000	0 0 0		0 0 0			0 0 1	2	0 0 2	0 0 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NAVAIL NAVAIL	1D - 0 0		00. 000	000	000	000	000	0 0 0	000	0	••••	000
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31 MEAN	0	0	0	0	0	0	0	0	1	0	0	1			0	0	0	0	0	0	0	0	0	c		ບ ວ. <b>3</b>

PERCENTAGE OF DATA VALID - 74.9 . PERCENTAGE OF DATA INVALID - 15.5

PERCENTAGE OF DATA UNAVAILABLE - 9.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

YEAR

UNITS - 0.01 PARTS/MILLION

ATION - WC	NO 28025	FARQUHA	AR/WYNDHAM ST.GUELPH		
MONTH	NO	OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN			DATA UNAVALL	ABLE	
FEB			DATA UNAVALL	ABLE	
MAR			DATA UNAVALU	ABLE	
APR			DATA UNAVAL	ABLE	
MAY			DATA UNAVALL	ABLE	
JUN			DATA UNAVALI	ABLE	
JUL			DATA UNAVALL	ABLE	
AUG		10	0.4	1	7
SEP		30	0.3	1	7
OCT		31	0.3	2	8
NOV		30	0.1	1	4
200		22	0.3	•	9

0.3

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - WC NO 28025

FARQUHAR/WYNDHAM ST. GUELPH

MONTH OO TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL DATA UNAVAILABLE FEB DATA UNAVAILABLE MAR DATA UNAVAILABLE DATA UNAVAILABLE MAY DATA UNAVAILABLE JUN DATA UNAVAILABLE JUL DATA UNAVAILABLE AUG SEP OCT n NOV DEC 

YEAR

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA CONCENTRATIONS
DISTRIBUTION. PERCENT
70 90 95 FREQUENCY ARITH MEAN VALID MIN SB MAX 81.1 0.0 0.0 0.0 0.0 0.3 0.6 0.9 1.8 2.6

UNITS - 0.01 PARTS/MILLION

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE NORTH PARK HAMILTON MONTH . JAN HOUR 24 MEAN 00. 0 8 0 0-0. 00000WW 010. 0 2 3 4 5 3 4 3 0 12 13 14 15 16 17 18 19 20 --000400 ....2 22 23 24 25 26 27 28 29 30 243-04-2 2 0 5200-22500 3 3 0 0 0 5 3 0 0 1 1 5 0 2 2 MEAN 1.3

PERCENTAGE OF DATA VALID . 97.0

PERCENTAGE OF DATA INVALID . 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION MONTH - FEB 80 STATION - WC NO 29008 NORTH PARK HAMILTON 24 MEAN HOUR 0 0 1 0000-3 4 5 6 7 8 9 10 330-0 1 0 ò ò 3 4 4 2 0 0 2 5 5 1 12 13 14 15 16 17 18 19 20 70. 30. ò 0 2 1 . . 0 2 00230-22 23 24 25 26 27 28 29 -00000-00 101400N00 00700-00 3 3 0 0 4 1.3 MEAN 

PERCENTAGE OF DATA VALID - 97.3

PERCENTAGE OF DATA INVALID . 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - WC NO 29008 NORTH PARK HAMILTON 24 MEAN HOUS 1.1 0 4 4 1 0 1 4 024522. 0 2 5 3 2 3 4 5 6 7 8 9 00000-004 12 13 14 15 16 17 18 19 -00000000 0-00000044 00. 10000-000 0000-024 0 1 0 22 23 24 25 26 27 28 29 00000-0000 00000-0000 ... 0--300000 0-00000 C 1.0 MEAN 

PERCENTAGE OF DATA VALID . 88.4

PERCENTAGE OF DATA INVALID - 11.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O OF PARTS/NILLION

														200			25.000.000								
	STA	NOIT	- WC	NO	29008	3	NORTH	PARK	HAMI	LTON						, MON	TH	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	Ĭī	12	13	14	15	16	17	16	19	20	21	22	23	24 1	MEAN
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4 5 6	0	1 2	0	0	0 0 0	0	0	0	2000	0	0	300	0	00	700	100	0 0	0000	0000	0 0 0	0 2	0 1 0	0000	0000	0
7 8 9	1 1 2	0 1 1 3	1	1 2 5	0 1 2 3	1 2	0 3 3 2	1 3	0 3 2	0 3	0 3	0 2 2	0 2 2	3	7007	0	004	0	0 0 7	0	6	3 1 0	3	1	1 1 2
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13 14 15	4 0 8 0	1 B O	1 1 5	1 0 7 0						1 0 6 0	0	0 0 6	0		0 0 4	001	004	0 5 0	0 5 0	0	0	0	5	8 0	1 1 5
14 15 16 17 18	6	0 6 1	7	0 11 1	9	5	4	2 3 2	4 2 3	4 3 3	3	3	2	2	1 3 2	6	3 1 5	2 3 4	7 2	5 5 2	7 2 4	6 1 3	7	6	2 4 2
20 21 22	7 2 2	7 2	2	6 2	5	2	2	2 2	1	1	1	2	3	2	2	2	2	1	1	1	1 2	•		2	3
21 22 23 24 25	1 2	1 2	1 2	1 1 2	1 1 2	1 2	1 2	2 2 2	2	2 2	2	2	2	4 2	2	1	1	1 1 2	1 1 2	1	1	1 2	0 2	1 1 2	1 1 2
26 27 28 29 30	3 2 2	2 2 2 2 2	2 2 2 3	2 2 2 3	2 2 2 3	2 2 2 3	2 2 2 3	2 2 2 3	2 2 2	2 3 2 2	3 3 3 0	2 2 3 0	2 2 2 0	2 2 2 3 0	2 2 3 0	2 2 3 0	2 2 2 2 0	2 2 3	2 2 3	2 .	2 2 2 0	2 2 2 2	2 2 2 0	2 2 2 0	2 2 2
MEAN	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	3	2	2	2	2	2	2	1.7

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 1.8

PERCENTAGE OF DATA UNAVATIABLE . O.B.

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLIGN STATION - WC NO 29008 NORTH PARK HAMILTON MONTH - MAY 80 HOUR 10 18 19 21 22 23 20 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 0 0 010200101 0 0 0000000000 2001010100 000000 0000000000 0000000000 00 00 21 22 23 24 25 26 27 28 29 30 0 5 1 0 0 02100 00000 0 2 0 0 2 3 0210000 2 3 3000000000 00000 000 0000 000 0000 0000 0 О 31 0 0 0 0 ٥ 0 0 0 0 0 0 0.4

PERCENTAGE OF DATA VALID - 91.4

PERCENTAGE OF DATA INVALID - 8.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- "." INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### UNITS - 0.01 PARTS/MILLION

	\$1	TATIO	- wc	NO:	2900	8	NORTH	PARI	K HAM	LTON						SON	TH -	JUN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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2	3	2	3	2	2	2	2	2	-		-	3	3				1	2	2	2	2		•	4	5
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13	1		2	1	2	2	2	2			::::		2	3	3	4	4	5			3	4	5	3	3
14	2	3	4	4							3	3	3	3	3	3	3	2	2	2	9	5	2	1	3
15	2		2	4	3	3	2	2	4	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	2
16	1	1	1	1	1	1	1	2	2	1		1	1	1		2	2	2	2	2	2	2	1	1	1
17	0	1	1	1	1	2	5	4	3	2	1	1	2	2	1	2	3	6	2	2	3	5	5	5	3
18	4	5	6	3	7	8	6	4					****			1	0	0	0	0	0	0	0	0	3
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	1	1	0	0	0	o	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
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MEAN	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 87.5 PERCENTAGE OF DATA INVALID - 11.4

PERCENTAGE OF DATA UNAVAILABLE - 1.1

- HOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. \*- INDICATES DATA IS UNAVAILABLE
  - 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- s	ULPH	JR DIOX	SIDE								UNITS	٠٥.	01 PA	RTS, M	ILLIO	N						
	STA	TION .	WC	NO :	29008	N	ORTH	PARK	HAMIL	TON						MON	īh • ,	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	1 1 0 0 1 0 0 2 0 0	1 1 0 1 0 0 0 1 0 0	1 10 1000000	010200000	1000100000	2001001000	1 0 0 1 1 0 0 0 0	1 5 1 4 1 0 1 0 0 1	5 1 0 1 1 0 1	1 0 1 3 1 0 0 1	1 0 1 3 1 0 1 0		0000	0000	100000	00000	1001001	002001	10000000	10001001	100-00-00-	000000000000000000000000000000000000000	1 0 0 0 1 0 0 2	100000000000000000000000000000000000000	1001001
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0	2000100000	200010000	2000100000	300000000	1 0 0 0 0 0 0	1 0 0 0 0 0 0	2000100000	3 0 0 1 0 0 0 0 0 0 0 0	2011010000	1001000000	10010010	0 0 0 1 0 0 1 0	0000100010	1 00 1 1 0 0 0 1 0	1001200010	1003301010	300010	00010	0010000000	00000	00000	0000100000	00000000	1000000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0	0000000000	0000000000	0 0 1 0 0 0 0 0	0 0 1 0 0 0 0 0	0 0 1 0 0 0 0 0	0 0 1 0 0 0 0 0	101010000	0 0 1 0 0 0 0 0 0	0010000000	0 0 1 1 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000100.00	000000100	0 0 0 0 0 1 1 0	0000000000	0 1 0 0 0 0 0 0	0001000	0 1 0 1 1 0 0 0 0	0 1 0 0 0 0 0 0	0 - 0 2 0 0 0 0 0 0	001010000
31 MEAN	0	0	0	0	1	0	0	۰	0	0		2	0	2	1	0	0	0	0	0	0	0	c	0	0.3
WE WIS	•	•	•			•	•			•							~		-		U	•		•	

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.CI PARTS, MILLION

	STA	TION	. WC	NO	29008		NORTH	PARK	HAM	LTON						MON	TH ·	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
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10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0
11 12 13 14 15 16 17	0000000	00000000	0000010	0000000	000000	00000000	0 0 0 0 0 0 0	0 1 0 0 0 0	00010001	000000000000000000000000000000000000000	001	0 0 0 1	000000	00110001	0 0 0 1 0 0 0 1	000000000000000000000000000000000000000	30100010	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 1	00000000	0 0 0 0 0 0 0 1	0.00100000	00000	0.0000000	0 1 0 0 1 0
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21 22 23 24 25 26 27 28 29 30	0 1 1 0 1 4 5 0	0111435000	5 2 0 0 0	1 0 1 1 2 1 0 0 0	0	0 1 0 0 0 1 2 1 0 0 0	0 1 0 1 2 3 5 0 0	0 1 0 1 1 - 3 0 0 0	0202136000	0 2 1 1 1 4 6 0 0 0	0211123001	0 1 2 3 0 1 0	0200-22021	0 2 0 1 2 2 0 1 2	10001220001	0 0 1 2 2 0 0	0 1 3 2 0 0 1	0000-32001	0 1 0 0 1 2 3 0 0 1	0 1 0 0 1 4 4 0 0 0	0 0 0 1 1 7 4 0 0 0	7 5000	0 1 0 1 2 9 2 1 0 0	641000	0 1 0 1 3 3 0 0 0
31	0	0	0	0		1	1	0	٥		٥	0	۰	1	1	1	1	1	2	1	0	0	0	0	0.7
MEAN	1	1	1	0	0	0		0	1	1	,		1		1		,								

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

	PO	LLUTA	NT -	SULPH	IUR DI	OXIDE								UNIT	s - o	.01 P	ATS/I	41LLIC	N						
	ST	ATION	- wc	NO:	29008	<u> </u>	NORTH	PARK	HAMI	LTON						MOR	TH -	SEP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
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5	1	2	3	3	2	4	5	3	0	0	0	0	0	0	0	0	0	0		0					- 1
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21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	4	5	4	2	,	2
22	1	2	4	4	2	3	2	2	2	1	2	2	1	3	- 5	4	3	2	4	2	2	1		1	2
23	1	1	1	1	1	1	1	1	1	1		1	1	1	1	- 1	0	0	1	0	1	1	- 1	1	
24	0	٥	0	1	1	1	1	1	,	1		- 1	. !	- 1	0	٥	٥	٥		:	1	2	3	4	i
25	1	1	1	1	- 1	- 1		2		1	- 1	- 1		- 1			,	- 7	- 1	,	- 1	- 7	ő	1	2
26 27	2	3	?	۰	4	4	,		1	3	2	,	,	3		ż	3	. 4	4	6	6	4	1	1	3
28	,	1	- 1	,	0	0	ñ	1	7	ő	ō	ī	1	1	ī	1	1		,	•	1	0	0	1	1
29	ī	i	i	i	ĭ	ĭ	3	1	1	1	1	1	1	į		1	1	υ	1	1	1	1	3	1	
30	j	ò	i	1	i	4	3	5	4	4	5	4	3	3	3		3	2	3	3	2	2	2	2	3
MEAN	1	1	1	1	1	2	2	2	1	1	3	1	- 1	1	3	1	1	1	1	1	t	2	3	1	1.3

PERCENTAGE OF DATA VALID - 91.0 PERCENTAGE OF DATA INVALID - 8.5

PERCENTAGE OF DATA UNAVAILABLE . 0.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - D.O1 PARTS/MILLION

	\$1	ATIO	N - W	C NO	29008	3	NORT	H PARI	K HAM	LTON						::ON	тн -	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	3	3	2	- 1	3	4	5	3	3	3	3	3	ï	3	4	2	2	i	1		1.	2	4	2
2	2	1	1	0	1	2	3	3	3	3	2	ī	1	. 1	1	-	1	- 1	1	1	1	- 1	- 1	ò	7
3	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		í	1	•	•	•	1	i
4	1	2	1	1	1	1	1	3	3	2	2	3	3	2	1	1	1	- 1	1	2	3	2	2	- 1	2
5	1	2	3	6	6	3	7	2	1	1	1	1	0	1	1	1	1	1	1	- 7	1	7	1	1	2
6	1	1	1	0	1	1	1	5	6	4	3	2	1	1	3	3	4		4	2	1	4	5	2	2
7	2	4	1	1	0	٥	1	1	1	2	1	1	****		1	2	2	1	1	- 7	4	2	2	3	2
8	5 0	4	3	5	3	3	2	1	3	- 7		4	3	3	3	1	1	1	0	ó	0	õ	ō	ŏ	2
9	0	0	0	0	0	0	0	0	1	2	3	4	1	2	1	1	1	1	1	1	ĩ	ī	- 1	1	7
10	1	1	1	1	1	1	1	1	1	2	2	2	1	1	0	٥	0	1	î	Ó	1	1	1	0	1
11	1	1	1	3	4	5	4	4	4	4	3	4	2	1	2	2	1	1	2	4	5	5	5	5	3
12	6	1	2	4	- 1	2	2	1	3	1	. 1	1	1	0	0	1	0	1	1	0	o	0	0	0	1
13	1	1	0	1	2	1	0	0	0	C	0	0	0	0	٥	0	0	O	0	0	0	0	0	0	^
14	0	0	_ 1	1	1	1	1	1				• • • •			2	1	1	1	1	0	1	1	3	0	-1
15		****								0						****				••••			0	٥	*****
16					0	٥	0		2	- 1	3	1	1	0	0	1	1	1	1	1	1	1	1	- 1	3
17	1	1	0	1	0	1		0	1	1	٥	1	1	3	3	3	1	1	1	2	3	4	1	3	21
18	3	4	4	4	4	7	6	4	4	4	4	4	3	4	3	4	4	5	6	5	1	3	7	6	4
19	6	6	4	5	5	5	4	4	5	2	1	٥	0	0	1	0	0	0	1	4	5	6	5	5	3
20	6	4	3	0	1	1	,	٥	0	1	1	1	2	1	2	3	3	0	3	4	3	3	4	5	2
21	4	5	2	3	4	5	1	4	2	3	2	3	2		٥	0	0	0	0	0	0	0	0	0	2
22	1	1	0	0	0	2	2	••••	1	1	1	1	1	2	1	1	1	1	1	0	1	0	0	0	1
23	0	0	0	1	1	1	1	1:	1	0	0	0	0	0	0	0	0	0	0 0 3 2 0	0000	0	1	1	0	0
24	0	0	0	0	1	1	1	1	2	1	1	1		0	0	٥	0	0	٥	0	0	0	1	1	0
25 26 27		- 1	1	1	0	٥	0	0	0	0		0	0	2 4 0	0	0	0	0	٥	0	0	0	5	0	٥
20	1	5	5	5	5	5	5	5	4	4	4	1	3	2	2		1	2	3	4	. 1	2	5	5	3
27	5	4	5	5	4	5	5	6	6	6	4	3	3	4	3	3	3	2	2	4	4	2		4	4
28	2	3	1	4	2	1	1	1	1	1	1	1	,	٥	0	1		0	0	0	3	3	3	4	1
29	3	5	5	7	4	4	5	6	3	. <del></del>	1	1.	1	0	1	1	2	4	5	1	0	0	0	0	3
30	0	0	1	2	4	3	3	4	5	4	3	4	3	3	4	4	4	5	4	4	5	4	5	4	3
31	5	4	5	4	4	5	4	4	4	3	3	2	3	3	3	4	2	5	5	6	1	4	3	•	4
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	1	1	2	2	2	2	2	2	1.9

PERCENTAGE OF DATA VALID - 94.1 PERCENTAGE OF DATA INVALID - 4.8

"ERCENTAGE OF DATA UNAVAILABLE - 1.1

- NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- \$	ULPH	UR DIC	XIDE							,	UNITS	. 0.0	01 PA	RTS/M	LLIO	N						
	STA	TION -	WC	NO	29008	,	NORTH	PARK	11MAH	TON						MON	TH - N	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0 0 2 2 4 6 0	2000144600000	0 0 0 1 0 6 5 0 0 0	0 0 . 0 2 4 4 0 0 0 0	000063010	0001163000	5065010	0 0 1 4 0 5 6 0 1 0	1005065070	0025155060	0054045050	0 7 6 0 4 5 0 3	0 6 3 0 5 5 0	0 0 5 4 0 4 5 0 1	0 0 4 4 0 5 5 0 1 0	0 0 3 4 0 5 7 0 1 0	0 0 3 1 0 7 5 0 1 0	0033055040	0022042050	0 0 2 1 0 6 1 0 2 0	0 1 2 0 1 5 0 0 0	0 2 2 4 2 5 0 1 0 0	0 1 2 5 6 0 1 0	0020760100	0 0 2 3 1 5 4 0 2 0
11 12 13 14 15 16 17 18 19	0 0 0 1 0 0 0 2 3 0 9	0 0 0 4 0 0 0 3 2 0 1 3	0 1 1 6 1 0 2 2 0 10	0 1 1 4 0 0 1 1 1 9	0 1 2 1 0 0 1 1 3 1 1	0 2 4 1 0 0 1 0 5 1 1	0 2 4 1 0 0 1 1 5 9	0 1 0 1 1 3 10	0 3 7 1 2 0 0 0 3 9	1560000137	0	0 0 0 3 5	0000	0 0 0 2 5	0 0	00001	1 0 0 0 0 1 1 4 7	0 0 0 1 1 4 4	0 0 0 1 1 1 4 4 4	0 0 0 0 1 1 5 2	0 1 4 0 0 2 1 1 6 2	0 0 0 0 1 1 1 1 0 5	0020031075	00:0032077	0 1 1 1 4 7
21 22 23 24 25 26 27 28 29 30	10 3 6 5 0 3	6 1 8 4 0 1 0 0 8 7	4 2 8 1 0 0 0 0 6 6	4581010056	3 7 9 0 6 1 0 5 7	3 8 12 0 7 1 0 5 6	3751060056	3 10 12 0 9 0 6 6	7 10 10 0 6 0 4 6	4070052055	4550030245	5 4 4 0 0 1 0 4 4 5	5 4 4 0 0 0 1 3 5 5	4 5 4 0 1 1 2 5 4	1 5 3 0 0 0 0 1 4 2	3 0 0 0 0 3 0 1	300000432	0 9 2 0 0 0 7 2 1	0 0 0 0 5 6 2	9 1 0 0 1 0 5 6 5	0 7 2 0 0 0 0 4 9 6	0 7 4 0 0 0 0 4 10 6	0 8 2 0 0 0 0 6 6 6	0 7 2 0 0 0 0 6 5 7	. 0 2 0 2 5 5
MEAN	2	2	2	2	2	3	2	3	3	3	2	3	2	2	2	3	2	2	2	2	2	2	2	2	2.2

PERCENTAGE OF DATA VALID - 98.5 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITE D OF BARTS MILLION

	STA	TION	WC	NO	29008		NORTH	PARK	HAMI	LTON						NO	NTH .	DEC	80							
HOUR DAY	i	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	7	7	7	9	7	7	7	2	3	2							****	,	2	1	•		,	Ť	4	
2	1	1	1	1	1	1	1	1	1				2			6	8	7	3	6	3	2	•	î	3	
3		1	2	1	. 1	1	1	1	2	2	2	2	2	9	2	1	1	1	ī	ĭ	1	- 7	*	5	2	
4		1	1	1	1	3	7	7	4	3	3	2		1	1	1	19	ī	3	2	3	- 1	2	3	5	
5	3	3	3	3	3	3	3	3	3	••••	. 1	- 1	1		1	1	1	ï	ĩ	1	- 7	2	1	ī	2	
6	1	1	1	1	3	2	2	2	2	1	1	1.	11		1	1	1	2	2	3	3	2	2	2	2	
7	2	2	3	3	2	2	2	1	2	2	1	2	1	1	2	2	2	4	6	8	5	3	3	4	3	
В	2	2	2	5	4	2	3	3	4	8	0	7	7	7	6	3	2	1	2	1	- î	1	1	1	3	
9	0	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1			7	7	2	
10	6	7	5	5	6	6	5	5	6	6	5	4	4	5	5	6	• • • •	••••	1	1	1	1	1	1	4	
11	1	1	1	1	1	3	4	4	9	8	3	2	3	2	2	3	3	4	5	5		•		5	3	
12	5	6	6	3	4	10	6	4	3	2	3	3	3		6	6	7	7	7	7	6	2	2	3	5	
13	5	5	5	4	4	2	1	1	0	U	1	1	1		2	Ū	ũ	Ũ	1	4	5	5	Û	4	2	
14	3	3	4	5	5	6	6	6	3	0	0	0	0	0	0	0	0	2	3	5	4	4	5	6	3	
15 16	5	5	9	5	5	8	8	7	6	3	2	4	3			4	1	2		3	3	3	2	2	4	
16	2	2	1	1	2	2	1	2	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	
17	0	0	0	0	0	0	0	٥	0	1	4	5	5	2	1	2	4	4	5	2		5	6	6	2	
18	7	6	6	6	6	7	6	6	99		1	1	- 1	1	1	1	4	5	4	5	6				4	
19	- 1	1	2	1	0	٥	0	0	0	0	1	0		( <del>*</del> )	0	1	0	1	3	3	4	5	5	6	2	
20	7	6	7	7	4	7	8	4	1	2	3	2	1	0	1	1	0	2	8	9	1.1	10	7	7	5	
21	7	9	6	8	8	9	8	7	8	7	5	5	4	2	3	3	1	5	5	7	10	8	8	11	6	
22 23 24	4	9	9	10	7	5	3	3	5	5	5	3	3	3	2	2	2	1	1	1	2	2	3	6	4	
23	7	8	9	10	9	6	6	6	11	8	7	7	6	6	4	5	5			6	8	7	8	7	7	
24	7		7	7	7	8	6	6	5	2	1	0	1	0	0	0	О	C	0	0	0	0	0	0	3	
25 26 27 28	0	0	0	0	0	0	0	0		5	5	4	3	4	4	3	3	3	6 5	6	5	5	5	3	3	
20	2	7	5	5	5	5	3	4	3	4	4	3	3	3	6	7	5	5		3	2	2	2	3	4	
27	<u>′</u>	4	2	2	2	2	1	1	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	1	2	
28	2	3	2	2	2	3	2	2	3	5	6	8	В	8	10	9	8	10	12	9	11	10	1.1	6	6	
29 30	5	5	6	4	5	4	5	4	3	2	3	3	2	2	*	1	1	0	1	1	1	1	1	1	3	
77/7	3	1	2	1	ī	1	1	1	2	3	2	3	3	3	3	3	1	0	0	0	1	2	2	1	2	
31	1	2	2	1	2	2	2	0	0	1	0	O	0	0	٥	, 1	0	1	0	0	1	1	1	*	Ť	
MEAN	3	4	4	4	3	4	4	3	3	3	3	3	3	3	2	3	2	3	3	3	4	3	3	3	3.1	

PERCENTAGE OF DATA VALID - 95.3

PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1900

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

			ONLIS - U.UI PARIS/MILL	LOM
STATION - WC N	0 29008 NORTH PARK	HAMILTON		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	30	1.3	3	7
FEB	29	1.3	5	10
MAR	27	1.0	4	7
APR	30	1.7	5	11
MAY	29	0.4	2	6
JUN	28	1.0	3	9
JUL	31	0.3	4	5
AUG	31	0.7	3	. 9
SEP	27	1.3	5	10
OCT	30	1.9	4	7
NOV	30	2.2	7	13
DEC	31	3.1	7	12
YEAR	353	1.4	7	13

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT . SULPHUR DIOXICE

UNITS - 0.01 PARTS MILLION

TATION .	WC NO	29008	3	NOR	TH F	ARK	HA	UILI	ON															
MONTH	00 TO	05 (	06 10	10	11	то	15	16	то	20	21	TQ	25	26	TO	39	40	10	19	50 6	OVER	1	TOTAL	
JAN	7	14		8			0			٥			o			0			э		C	;	722	
FEB	6	54		23			0			٥			0			0			٥			)	677	
MAR	6	50		8			0			0			0			0			0		c	)	658	
APR	6	53		37			i			0			0			0			0		c	)	701	
MAY	61	79		1			0			0			0			0			٥		c	E	680	
JUN	6	23		7			0			0			0			0			0		c	)	630	
JUL	7	30		0			0			0			0			0			٥		c	)	730	
AUG	7	7		8			٥			0			0			0			o		C	)	725	
SEP	6	35		30			0			0			0			U			v		C	E	633	
OCT	64	80		20			0			0			٥			0			0		c	1	700	
NOV	64	05		99			5			0			٥			0			٥		C	ķ	709	
DEC	56	54		139			6			0			0			0			٥		0	F	709	
YEAR	79	4		370			2			0			0			0			0		0	ķi.	8296	

FREQUENCY DISTRIBUTION BY PERCENTILES

POLLUTANT - SULPHUR DIOXIDE

, KEGGERS !	PERCENT	104 61 7	ENCENT LES			CONCEN	TRATIONS					
	OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	94.4	0	0.0	0.0	0.2		3.6	4 9	6.5	7.5	12	

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - D. O. PARTS/MILLION

	POL	LUTAN	1 .	SULPH	UR DIC	MIDE								UNITS	- 0.	O1 PA	RTS/M	ILLION	N						
	STATION - WC NO 29025 BARTON/WENTWO									H HAM	LTON					NON	тн - ,	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23.	24 1	MEAN
1	1	•	1	0	1	1	1	1	,	1	1	1	-1	,	1	٥	1	1		1	1	4	1	1	1
2	3	4	3	2	2	2	2	2	1	1	1	1	1	1	1	0	0	1		1	1	0	1	1	1
3	1	1	1	1	1	1.	1	1	0	0	0	1	0	1	0	1	1.	1	1	1	1	1	1	1	1
4	2	1	4	2	5	4	3	2	2	3	5	2	2	3	4	4	4	3	2	2	2	2	2	2	3
5	2	2	2	4.5		2	3	2	2	2	3	6	7	9	6	2	0	1	1	1	1	1	1	2	3
6	2	2	2	2	2	4	4	3	3	2	1	1	1	1	1	4	1	1	1	1	2	2	4	4	2
7	3	2	2	3	3	2	2	1	1	1	1	1		1	0	1	1	1.	1	1	1	1	1	1	1
В	1	1	1	1	2	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1		1	1	0	1	1	1	1.	٥	1	1	1	1	1	1	1	1	1
10	3	2	2	2	2	3	2	2	3	2	3	2	2	2	2	2	2	4	3	3	3	3	3	3	2
11	3	3	2	2	3	2	2	1	4	1	1	0	1	2	2	1	4	1	1	0	1	1	1	0	1
12	0	1	1	0	0	0	1	1	O	٥	C	O	٥	٥	U	2	٥	¥.	1	1			:	1	2
13	1	2	2	2	2	2	2	2	1	2	1	2	3	2	2	1	1	2	2	1	2	2	1	2	2
14	2	3	3	2	2	2	2	1	1	1	1	1	2	2	2	1	1	1	1	1	2	2	5	5	2
15 16 17 18 19	4	5	4	4	3	2	1	2	2	3	5	5	3	3	4	4	2	4	2	2	1	2	2	1	3
16	1	1	1	1	1	1	1	1	1	1	2	,	2	3	3	3	3 .	• • • •	4	5	6	5	5	5	2
17	6		5	5	3	3	3	2	2	1	- 1	2	2	1	1	2	,	1	1	,	1	1	1	- 1	2
18	1	1	1	1			1	,	1	0	1	0	- 2	1	1	0	1	1	1		1	1	1	1	1
19	1	9	1	1		- 1	1	1	1	0	0	0	0	0	0	0	0	٥	1	1	0	0	0	o	0
20	1	1	4	,	,		1	0	0	3	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1	0	0	0	1	0	٥	1	0		0	0	0	0	0	0	0	G	0	1	1	1	1	1	0
22	1	1	1	1	0	٥	1	•	1	1	1	30	2	2	1	1	1	1	1	0	1	0	0	0	1
23	0	0	1	0	0	1	1	•	٥	0	1	1	1	0	1	0	1	1	1	1	•	1	1	1	
24	1	- 1	1	1	<u></u>	1	1	1	1	1	1 .	ı	1	. 1	1	1.	1	1	2	3	2	3	3	3	1
25	2	3	2	2	2	2	2	2	3	. 3	3 .	• • • •	****		••••	3	3	3	3	3	3	3 2 2	3	2	3
20	2	4	2	2	2	2	2		2	2	2	2	2	3	1.	1	1	1	. 1	2	2	2	2	2	2
20	3	2	2	2	2	2	2		2	1	1	-	1	2	2	2	2	2	3	2	2	2	2	3	3
20	3	3	2		2	2	2	4	1	2	2	7	2	1	2	1	2	2	2	2	2	2	2	2	3
21 22 23 24 25 26 27 28 29 30	3	2	2	3	3	2	2	2	3	3	3	2	3	2	2	2	2	3	3	2	2	2	2	2	3 2
31	1	1	•	1	1	1	1	1	1	1	1	i	1	1	1	1	,	2	2	2	2	1	1	i	1
MEAN	2	2	2	2	2	2	2			9	,		2	2	2				2		===			2	1.5
		-	•	•	•	•	•	100		7			•	4	4				2	,	2	2	-	-	1.3

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

		STA	TION -	WC	NO	29025		BARTON.	/WENT	WORT	H HAI	ILTON.				180	MON	тн -	FEB	80						
HOUR DAY		1	2	3	4	5	6	7	9	9	10	11	12	13	14	15	1,6	.7	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	٠	1 2 1 4 2 4 2 1 4	2 1 1 4 2 3 2 1 3	2 2 1 3 2 4 2 2 2	2 2 2 3 3 3 2 2 2	3 3 2 2 3 3	2 3 1 3 3 1 3 7	3 2 1 3 3 2 1 3	4 2 1 2 4 3 1 3 2	1 1 4 2 0 3	2 2 1 1 4 2	1 1 1 3 2 0	1 2 2 2 0 1	1 1 2 1	1 1 1 3 0 1	C 1 1 1 5 0 1	2 1 6 0 1	1 2 1	1 2 1 . 5 1	2 1 1 3 4 1 2	2 2 2 2 4 1 3	3 2 2 3 2 1 3	2 2 2 2 2 1 3	2 2 4 1 2 3	2 1 3 2 4 1 1 3	2 2 1 2 3 3 1 2 2
10		ī	1	1	1	1	1	1	2	3	3	2	ò	0	0	3	1	0	1	1	0	0	0	1	1	1
11 12 13 14 15 16 17 18 19	,	1 0 1 1 1 3 1 2 5 3	1 0 0 1 1 4 1 2 6 2	1 1 0 2 2 2 1 1 7	1 1 2 1 3 1 1 6 2	1 0 1 2 2 4 0 1 5 2	1 0 1 2 2 1 1 2 5 2	1 0 2 3 2 1 1 1 4 4	2 0 2 3 2 1 1 2 4 3	2 1 2 3 2 1 1 4 3	0 2 3 1 1 2 4 3	0 2 3 1 1 1 2 4 4 3	1 1 1 1 0 2 3 4	1 0 0 1 1 1 1 2 3	1 0 0 1 1 1 1 3 3 4	1 0 1 1 0 3 3 3 3	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 4 1 2 2 1	1 0 1 1 3 1 1 2 3 1	0 0 1 1 2 1 2 3 1	1 0 1 1 2 2 1 3 3 1	1022121341	0 0 2 1 2 3 1 4 3 1	3 2 4 3 1	1 2 2 4 2 1	2 2 2 4 2
21 22 23 24 25 26 27 28 29		300000000000000000000000000000000000000	1 5 0 0 0 0 0	2 4 0 0 0 0 0 0 1	2 4 0 0 0 1 0 0 1	2 3 0 0 0 0 0 0 1 1	2 3 0 0 0 1	2 3 1 0 0 0 0 0 0 1	221000012	2 2 1 0 1 0 0 0 1	2 2 0 0 1 0 1	2 2 3 0 0 1 0 0 1	223010000	2 1 4 0 2 0 0 0 1	4 0 3 0 0 0 1	2 4 0 2 0 0	4 3 0 2 0	3 0 2 0 0 2 1	4 0 0 0 0 0 1 2	20200012	3 0 2 0 0 0 0 0 2 1	4 1 2 0 0 0 0 0 2 1	402000021	502000021	4 0 0 0 0 0 0 0 2 1	2 2 2 0 1 0 0 1 1
MEAN	, di	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1.5

PERCENTAGE OF DATA VALID - 98.3 PERCENTAGE OF DATA INVALID - 1.4 PERCENTAGE OF DATA UNAVAILABLE - 0.3

- NOTES t. " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

	POL	LUTANT	٠ 5	ULPH	UR DIO	XIDE							1	UNITS	- 0.0	01 PA	RTS/MI	LLIO	N						
	STA	TION -	WC	NO .	29025		BARTON	WEN1	WORT	H HAMI	LTON	ı				MON	TH - N	AAR	80						
HOUR	Î	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	1 2 1 1 2 0 1 4 1 0	1 3 1 2 2 0 1 5	1 2 1 2 2 2 0 2 4 1 1	2 1 1 2 0 2 5 1	2 3 1 1 2 0 2 4 1	2 3 1 1 2 0 2 5 1	2 3 1 1 2 0 3 5 0	2 3 1 1 2 0 3 4 0 1	1 4 1 2 2 1 2 6 1 1	0 B 1 2 2 1 2 6	1 5 2 2 2 0 1 4 1 2	1 2 2 2 2  0 1 5	1 2 2 2 0 1 7	0 1 1 2 3 0 1 5	1 1 2 2 0 1 0 1 1	1 1 1 1 0 1 1 1 1	1 1 1 0 1 1 0 1 1 1	1 1 1 1 1 1 0 1 1 1	1 1 2 1 1 0 1 1	1 1 3 1 1 1 1 1 1 1 1 1	2 1 2 1 1 1 1	2 1 2 0 1 1 2 0	3 1 1 2 0 1 2 2 1 0	2 1 2 0 1 2 1 1 1	1 2 2 2 0 2 3 1 1
11 12 13 14 15 16 17 18 19	0 0 2 3 0 2 2 0 0 1	0 0 2 2 1 3 2 0 0 2	0 1 2 1 1 4 1 0 0 2	0 1 2 1 2 1 0 0 2	0 1 2 1 1 2 1 0 0 2	0 1 2 1 1 1 3 0 0 2	0 1 2 1 1 1 1 4 0 0 0 3	0 1 2 2 0 2 3 0 0 2	0 0 1 1 0 3 2 0 0 2	0 0 1 2 0 3 2 0 0 2	0 0 1 2 0 3 1 0 1 1	0 0 1 2 0 3 1 0 1 1	0 0 1 1 0 0 1	0 1 1 0 4 1 0 1	03-1050023	1 4 4 1 0 5 0 0 1 1	0 5 - 1 0 4 4 0 0 4 4 1 3	08 40000019	03-0040000	1240050011	01 41 05 00 11	0 2 4 1 0 4 0 0 0 0 3	0 1 2 1 2 4 0 0 1 2	0 1 2 0 3 1 0 0 1 1	0 2 2 1 0 3 1 0 1 3
21 22 23 24 25 26 27 28 29 30	3 1 0 4 1 1 1 2 4 1	3 1 4 1	2 1 1 5 1 1 2 1 2 1	3 0 1 3 1 1 2 2 3 1	4 0 1 3 1 1 4 2 2 1	3 1 2 4 1 1 4 2 3 0	4 0 ! 6 ! 1 3 1 4 0	6 0 1 4 1 0 3 1 4 0	4005315434	3016213756	3 0 1 4 2 1 2 5 5 3	4 0 2 4 3 1 2 6 6 3	2015223575	1 1 4 3 3 4 6 7	1 3 4 2 1 4 8 7	1 0 4 3 2 2 4 9 7 6	1034123065	0 1 1 4 1 1 4 8 3 3	1034013882	1 0 2 2 1 1 3 7 8 2	1013012582	1 0 1 1 1 7 5 9 2	1 1 1 1 5 7 2 3	1 1 2 0 1 0 4 3 1 6	2014113553
31 MEAN	2	5	5 2	5 2	4 2	6 2	5 2	4	2	4 2	5 2	6 2	7 2	8 2	7	6 2	3	5 2	3 2	6	6 2	2	2	1	1.9

PERCENTAGE OF DATA VALID - 99.5 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - \*- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 PARTS/MILLION

	STA	TION	- wc	NO	29025		BARTO	N/WEN	TWORT	HAM!	LTON					WON'	TH	APR	80						
HOUR	-3	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1.	5	6	3	3	3	1	1	2	5	8	9	8	5	3	4	1	2	3	2	2	1	1	1	1	3
2	1	1	1 -	1	1	1	1	2	2	1	2	2	2	2	1	- 1	2	1	1	1	1	1	1	1	1
3	2	5	2	2	3	4	3	6	4	3	4	4	D#1	6	4	5	6	4	3	3	2	3	3	4	4
4	3	3	2	2	1	1	1	1	1	1	1	1	1	0	0	1	C	٥	0	0	0	0	0	!	!
5	1	1	1	0	0	1	1	1	.1	1	1	0	0	0	1	0	С	0	0	1.	0	1	1	1	
6	1	1	1	1	1	1	1	0	2 7	3	3	4	7	7	7	õ	8	8	9	7	7	10	6	•	•
7	6	7	7	7	7	6	4	3		6	6	10	6	2	2	4	6	3	2	2	1	1	1	1	4
8	1	1	1	1	1	1	0	1	2	2	6	7	7	7	3	4	4	4	2	2	1	- 1	0		3
9	0	1	1	1	1	1	1	1	1	1	1	1	,		0	0	0	0	1	1.	2	1	1	1	1
10	1	0	0	0	0	0	1	٥	1.	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
1.1	0	1			٥	1	0	٥	0	٥	C	3	5	2	3	٥	2	2	C	0	c	\$	0	0	2
12	ō	0	ò	1	1	2	6	6	6	4	3	2		1	1	1	1	0	0	0	0	0	0	0	2
13	ŏ	ŏ	ŏ	0	o	ō	0	0	0	0	0	0	0	0	0	0	0	c	٥	0	0	0	0	0	0
14	2	6	Ř	7	6	3	4	5	4	4	4	3	3	2	3	4	5	6	5	3	1	1		1	4
15	- 7	ō	ŏ							0	0	0	0	1	0	0	C	0	0	0	0	0		0	0
16	ò	o	ŏ	ò	0	٥	0	0	٥	a	0	٥	1	0	0	0	0	0	0	1	0	1	1	0	0
17	ĭ	ŏ	ĭ	ĭ	2	1	ī	1	1	1	0	0	0	0	0	0	0	1	1	1.	2	1	1	0	1
18	ò	ĭ	•	ò	- 7	- 1	,	1	ì	1	4	5	4	2	1	1	2	3	7	4	1	1	1	3	2
19	ĭ	1	- 1	- 1	2	3	4	4	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1		2
20	1	1	i	ò	1	1	1	1	ō	1	1	1	1	0	0		5	3	3	2	1	. 0	1	1	1
21	1	1	1	1	2	1	*	- 1	1	0	3	3	2	1	0	0	0	0	0	1	2		*	1	1
22	1	1	1	1	1	2	6	6	3	5	5	5	6	7	7	5	4	6	8	6	7	4		6	4
23	7	7	7	7	8	7	8	6	5	5	5	5	6	7	3	4	2	1	0	6	1	1	1	0	4
24	0	1	1	2	3	1	1	0	1	5	6		••••	6	2	1	7	4	6		6	5	3	3	3
25	5	1	1	1	0	0	0	0	0	1	1	1	1	2	2	•	1	1	1	2	1	1	1	1	1
26	1	1	1	1	,	2	2	2	2	3	7	5	3	3	3	4	8	3	5	4	1	1	1	1	3
26 27	1	1	1	1	2	2	2	3	3	6	4	5	4	3	4	5	4	6	5	4	4	3	4	2	3
28	3	3	3	3	4	4	6	5	6	6	3	1	2	2	4	3	4	4	4	3	5	5	6	5	4
29	5	7	8	6	5	8	5	6	4	3	3	4	4	3	3	4	2	2	3	3	1	2	2	1	- 4
30	1	3	2	2	2	2	2	1	2	1	2	1	2	3	3	3	5	2	4		4	1	1	1	4
MEAN	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	3	2	2	2	2	2	1	1	2.1

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	PO	LLUTAN	ıT -	SULPH	UR DI	OXIDE							1	NITS	- 0.0	) PAF	TS/MI	LLION							
	ST	ATION	. wc	. NO	29025		BARTON	/WENT	WORTH	HAM	LTON					MONT	н - в	YAI	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	000000000000000000000000000000000000000	1 1 1 0 0 0 0 0 0	1 1 1 1 1 0 0 1 0	1 1 0 0 1 0	1 1 0 0 0 0	1 2 1 1 1 1 0 0 0 0 0	1 2 0 1 1 0 0 1	11110010	1 1 0 1 1 0 0 0 1	1410010001	1 0 0 0 0 0	1 2 1 0 1 0 0 0 0	1 0000000	1 0 0 0 0 0 1	12-000001	2000001	110000000	-00000000	1 0 0 0 0 0 0 1	010000000	1 0 0 0 0 0 0 1	0 0 0 0 0 0 2	0 1 0 0 0 5	1000000000	1 1 0 0 0 1 0 0 0 1
11 12 13 14 15 16 17 18 19 20	3 1 0 1 0 0	1 1 0 0 1 1 0 1	0 2 2 0 0 0 1 1 0 1	220002201	1 2 1 0 0 1 1 2 0 1	1 1 0 0 1 1 2 0 1	1 2 1 0 0 1 5 5 0 2	1200115305	1 2 3 1 1 7 1 0 7	1 2 4 1 0 1 8 1 0 7	1 2 3 1 1 2 1 2 0 5 5	1 4 4 1 0 1 9 1 1 2 4	1 + 5 1 0 0 8 1 8 6	0 3 3 0 0 1 8 1 3	1 3 1 0 1 6 . 2 8	0 5 2 0 0 0 1 5 1 2 8	0 3 2 1 0 0 1 2 0 1 7	0 2 7 1 0 0 6 C 1 8	0 2 3 0 0 0 1 0 1 4	0 1 0 1 0 0 1 1	0 2 0 1 1 0 0 1 6	0 1 1 0 1 1 0 1 4	0 1 1 0 0 1 2 0 1 2	0	200015125
21 22 23 24 25 26 27 28 29 30	0 0 1 1 2	1 0 0 1 0 1 1 1 2	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 1 2 0 0 2 5 1	3 2 1 1 0 1 1 2 7 1	2 2 3 1 0 1 0 9 3	2 1 1 2 3 0 0 3 5 4	6 1 2 3 2 2 0 4 7 6	6 3 2 0 0 3	4 0 1 3 1 7 0 4 4 9	1	5 0 1 6 2	0 1 3 2 0 0 9 10 1	4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1011200421	2 2 0 0 3 6 1	0022400230	102300011	3 2 0 0 1 1 1	0 1 2 1 0 0 0 1 2 0	011200220	0 1 1 2 3 0	2 1 1 2 1 1 0 2 4 2
31 MEAN	0	0	0	0	0	0	1	, o 2	1	0 2	1 2	0	0	0	0	2	10	0	0	0	0	1	1	1	1.3

PERCENTAGE OF DATA VALID + 97.3 PERCENTAGE OF DATA INVALID - 2.3

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- --- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O. DI PARTS/WILLION

		LLUIAN		JULI	10 K U		<b>=</b> 0							ONLIS		01	R ( 37.11	ILLIO	114							+
	ST	ATION	. wc	NO	2902	5	BART	ON/WE	NTWOR	TH HA	MILTO	N				MON	тн 🕞	JUN	80							
HOUR	Ĭ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
,	0	o	0	0	o	0	0	0	٥	0	0	0	٥	1	3	3	11	í	2	3	2	5	4	4		,
2	4	2	1	1	0	0	0	1	0	1	1	1	2	3		1	1	0	0	0	0	0	0	0		1
3	0 0 4		0	2	1	1	1	0		0	0	0		0	3	0	0	O	0	0	0	0	0	0		0
4	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
5	0	٥	0	0	0	0				****		3	2	2	1		0		0	0	0	0	1	3		1
6		4	1	2		2	3			2	1		****	4	9	5	5	4		0	0	1	0	0		3
7	0	0	0	0	0	0	1	0	0	0	0	0	3	3	3	1	0	0	0	0	0	0	1	0		1
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	9	0
9	0		0				0		1	1	3	1	- 1	1		1	1	1	1	1	1	1	1	1		1
10	1	1	1	1	1	1	1	1	2	1	3	1	1	1	1	1	1	1	j.	1	1	1	1	1		1
11	1	1	2	2	2	,	1	****	2	••••		1	1	1	3	1		1	1	1	1	1	2	1		1
12	1	1	1	2	1	2	2	2				3	3	3		5	5	ž	2	2	2	14		- 1	8	2
12 13 14	1	1	1	1	2	1	1	2	2	•	-	100	2	3 3	3	3	3	3	****		2	2	3	3		2
14	3	3	3	3	••••					****	2	2	2	3	2	2	2	1	1	1	1	1	1	1		2
15	1		1	1	1	1	,	1	1	1	1	2	2		1	1	1	-1	1	1	1	1	1	3		1
16	2	1	1	1	2		1	2	3	2		2	1	3		4	4	6	3	3	3	3	2	1	1	2
17	1	1	1	1	1	1	2	2	2	1	- 1	1	1		1	2	3	3	1	1	1	1	1	2		1
18	1	1	1	1	2	2	3	2	2	2	1	1	1	2	2	1	1	3	4	4	5	5	4	2	- 1	2
15 16 17 18 19 20	1	2	2	2	3	3	5	4	3	4	3	4	6	5	5	5	6	5	3	2	1	1	1	1	3	3
20	1	1.	1	1	1	1	1	1	****	0	1	0	1	1	1	1	1	0	1	1	1	0	0	0	-	1
21	0	0	0	0	0	0	0	1	0	1	D	0	0	0	0	0	٥	О	0	1	1	1	3	1	. ,	0
22	0	0	٥	0	0	1	1	1	1	1	1	- 1	0	1	1	1	1	1	1	1	1	0	0	0		1
23	1	1	1	1	1	. 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	2	3	2	. 1	2	3	3	3	3	2	3	3	3	3		2	3	2	2	2	3	4		2
25	4	4	3	3	2	2	1	1	1	1	2	3	3	2	2	2	2	1	2 '		1	1	1	1		2
26	2	2	2	3	3	2	3	3	3	2	2	1	1	1	2	2	2	2	2	2	2	3	2	2		2
21 22 23 24 25 26 27 28 29	2	1	1	1	1	1	1	1		1	0	1	1	2	5	4	6	5	1	1	1	1	0	0	3	2
28	1	5	5	7	4	3	3	3	5	3	3	2	5	5	4	4	5		6	6	3	3	2	2		4
29	1	1	1	1	1			1	0	1	2	2	2	3	2	2	2	3	2	1	0	0	0	0	8	1
30	0	٥	0	0	0	0	٥	0	0	1	0	0	0	0	0	0	Q	1	1	1	0	1	0	0	9	0
MEAN	1	ï	1	1	1	- 1	1	1	1	1	1	3	2	2	2	2	2	2	1	1	1	1	ï	1	1.4	4

PERCENTAGE OF DATA VALID - 95.0 PERCENTAGE OF DATA INVALID - 4.2

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESGURCES GRANCH

	POL	LUTANT	• S	ULPHL	IR DIO	XIDE							1	UNITS	٠٥.	01 PA	RTS/M	LLIO	N						
	STA	TION -	WC	NO 2	9025	8	ARTON	WENT	WORTH	HAM	LTON	u.				MON	тн	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1,5	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	0 0 1 0 1 1 1 1 1 1 1 1	000010110	0 1 1 0 1 1 0 0 1	0 0 1 0 1 1 1 1	0 1 0 1 1 0 1 1	0020111111	0 0 3 1 1 1 1 1 1 1 1 1 1	0 0 4 1 2 0 1 1 2 2	0 0 4 4 2 1 1 0 4 2	0 1 3 2 1 0 0 1 2 1	1 2 6 2 1 0 1 0 2 1	0 2 5 1 0 0 1 2 1	0 2 5 1 1 0 0 1 2 1	0 1 4 2 1 0 0 1 1 1 1	1 2 2 8 1 0 0 1 1	1 6 1 0 1	1 2 0 2 1 0 1	0 1 0 4 1 0 1 2 0 1	0 2 0 1 1 0 1 1 1 1 1 1	0 3 0 1 1 0 1 1 0 1	0 2 0 1 1 0 1 1 1 1 1	0 1 0 1 1 1 1 1	0 1 0 1 1 0 1	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 2 2 1 0 1 1 1 1 1
11 12 13 14 15 16 17 18 19	1 0 0 0 1 0 0 0 0 0	1 0 0 0 1 0 1 0 0 0	1000000000	1000000001	1 0 0 0 0 0 0 0	102000001	1010000100	1 0 1 0 0 0 1 0 1	1030000201	0030100310	0020000210	00000000	0010000411	0 0 0 0 1 0 0 3 1 0	1 0 0 0 1 0 0 2 1 0	1001100211	0 3 1 1 0 1	0 0 0 0 0 0 0 1 1	000000011	1000000011	0 0 0 0 1 0 0 1 1	0 0 0 1 0 0 0 0 1	0000100001	00000001	1 0 0 0 0 1 0 1
21 22 23 24 25 26 27 28 29 30	1 1 0 1 1 0 0 1 1 1	1 1 1 1 1 0 0 1	0 1 1 1 0 1 1 0 1	1 1 1 1 0 1 1 1	0 1 1 1 0 1 1 1 1	0 1 1 1 1 2 1 0 1	1 1 1 1 2 1 1 1 1	1 1 1 1 2 0 1 1	1 1 1 1 1 2 0 1	0 1 1 1 2 0 1 1	0 1 1 1 2 4 0 1 1	3 4 0	0 1 1 1 3 5 0	0 1 1 0 2 1 0 1 1	0 1 1 0 1 3	0 1 1 0 0 2 4	1 1 1 1 0 2 4 2 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 2 3 1 1 1	1 1 0 3 1 1 1 1	1 1 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0001	0-0	1 1 1 1 1 2 1
31	1	ī	1	2	1	1	i	1	1	0	1	ĭ	1	2	,	2	2	2	3	3	3	2	2	2	2
MEAN	1	1	0	1	1	1	1	1	1	1	1	i	1	1	1	ĭ	;		1	,	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLIGN

	STA	TION -	WC	NO	29025		BARTO	N/WEN	TWORT	H HAN	ILTON					NON	TH - ,	LUG	80		(40)				* * *
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	1	1	1	1	2	1		1		1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
3	0	0	00	0	0	0	0	1	3	1	1		1	1	Ĭ	1.	1	1	0	. 0	0	0	0	0	0
5	0	0	١	0	1	1	1	1	••••	ō	- 1	į	i	į	į	1	3	1	1	1	0	1	1	1	1
7	1	ì	1	1	1	Ì	1	1	1	Ţ,		į	i	- 1	į	1	1	i	1	0	0	1	0	7	;
9	••••	į	ì	1	1 2	1	1 2	1	1 3	0	0	3	0	1 2	2	0	3	0	0	3	1	4	4	3	2
11	3	2	4	3	6	4	5	3	7	5	6	ε	4	4	3	ה		2	1	1	2	2	1	5	:
12	1	ī	1	0	1	0	0	1	0	1	0	0	0	0	ò	0	o	0	0	0	0	0	0	0	0
. 14	0	0	1	0	0	0	0	0	0	000	0	0	0	0	0	0	0	0	0	0	0000	0000	0	00	0
16	0	2	0	0	0	000	0	0	0	3	3	3	1 2	2	2	2	2	2	2	1	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0 2	ò	0	CO	0	0	0	0	0	0	0	0 2
20	0	1	1		0	0	1		,		••••	••••	4	4	5	6	5	4	4	1	2	0	o	o	2
21	0	0	0	0	0	0	0	0	0	0	0	0	0	1 3	4	4	4	3	2	0	000	0000000	0	0	1
24	1	3	0	0000	0	0	0	1	!	2	2	0	4	0	0	0	0	0	0000	0 0 0		0	0 0 0	0	ò
22 23 24 25 26 27	0	o o	1	0		00000	0		0	0	3	1	2	1	1	١	1	0		0	0		0	0	1
28 29 30	0 1 1	1	0	0	0	1	1 0	1 0	2	2	2	3	3 7 0	2 4 0	3	3	4	2	0 2 0	2	3	2	0	0	0
31	o	o	٥	٥	0	٥	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	٥	0	0	0
MEAN	0	1	1	0	1	1	1	1	1	1	1	1	1	1	ī	1	,	1	1	1	1	1	0	0	0.8

PERCENTAGE OF DATA VALID - 97.6 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - ATR RESOURCES BRANCH

	POL	LUTANT		ULPHL	R DIO	SOIX							L	NITS	- 0.0	1 PAR	TS/MI	LLION	1						
	STA	TION -	WC	NO 2	9025	В	ARTON	/WENT	WORTH	HAMI	LTON					#5::T	'∺ · S	£2	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	: 7	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	0000011	000000101	0000011	000000111	00000111	0000010110	0 0 1 0 1 1 1 0 0	0 0 0 1 0 1 1 2 1 1	0 0 0 1 0 1 0 2 1 1	0 0 0 1 1 1 1 2 1 0	000310121	0 0 0 5 1 1 0 3 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 3 1 1 0 3 1 1	0000040-	1004100401	1000000011	100:::002:0	2002100110	0 0 0 1 1 1 1 1 1 0	000101011	000011110	0 0 0 1 1 1 1 1 1 1	000011100	0 0 1 0 1 1 2 1 1
10 11 12 13 14 15 16 17 18 19 20	0 1 0 5 0 1 1 1 1 1 1 1	006601111111111111111111111111111111111	0 0 6 1 1 1 1 1 0	0 1 1 6 1 0 0 1 1 1 0	0 1 7 0 0 1 1 1 1 0	3 8 0 0 1 1 1 1 0	0 8 8 0 0 1 0 1 1	1720 - 1 - 2 - 2	0 8 5 0 1 1 1 2 1 2	0 7 6 1 2 1 1 3 1 1	0 8 5 1 5 2 1 3	0 9 4 1 6 1 1 2 0 1	0 8 3 1 6 2 0 2 1 1	1 8 6 1 4 3 0 1 6	0 7 5 0 4 2 1 2 5	3 2 0 2 6 1	3 2 1 1 5 1	0 1 2 1 0 1 1	0 6	0 1 1 1 1 1 1	0 6 1 1 1 0 1 1 1	0 7 2 1 : : 1	0 7	0 5 : 1 1 1 1 0	0 5 1 2 1 1 1 2 1
21 22 23 24 25 26 27 28 29 30	0000100011	20000100111	1 0 0 1 1 0 0 1 2 1	1 0 0 0 0 2 1	10001	1 0 1 1 0 2 1	200011000021	20011	1012200032	5 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 1 3 1 0 0 5 2	3002700042	2 0 0 3 4 0 0 1 7 2	1 2 0 4 10 1 0 1 6 2	1 2 0 3 5 0 0 3 5 2	10001400023	0 1 2 1 3 0 0 2 4	1 0 2 1 1 0 2 2 2 2	0 0 1 1 1 1 0 2 1 2	0 0 1 3 1 0 1 1 2	0 0 1 1 0 0 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 1	000010000211	1 0 0 1 2 0 0 1 3
MEAN	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1		1	1	1	1	1	1.4

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.6

- 2. " INDICATES DATA IS UNAVAILABLE
  - 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DICKIDE UNITS - O OF PARTS MITTER STATION - WC NO 29025 BARTON/WENTWORTH HAMILTON MONTH - OCT HOUR 12 13 24 MEAN 1 2 3 4 5 6 7 8 9 10 20000000--0 0 12 13 14 15 16 17 18 19 20 000-35-000 001004-000 000063-000 22 23 24 25 26 27 28 29 30 0 0 1 0122000-01 0000-0 0 1 0

PERCENTAGE OF DATA VALID - 98.8

MEAN

PERCENTAGE OF DATA INVALID - 0.3

0 0 0

PERCENTAGE OF DATA UNAVAILABLE - 0.9

0 0 0 0 0

1.0

NOTES 1. " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

0 0 0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS, MILLION STATION - WC NO 29025 BARTON/WENTWORTH HAMILTON MONTH - NOV HOUR 1.7 :8 24 MEAN 2 3 4 5 6 7 8 9 0050-0. 0030-00-000-0-0 12 13 14 15 16 17 18 19 20 0 2 2 1 0+1024112 0 2 0 1 3 1 2 3 22 23 24 25 26 27 28 29 30 304-001-00 Ö 1 3 0 1 0 1 2 0 1 1 0 2 MEAN 0.9

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE . 0.6

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MLAN IN ONE DAY

	STA	TION	- wc	NO	29025	е	ARTON	/WENT	WORTH	HAM!	LTON					MON	IH .	DEC	80						- 11794
HOUR	1	2	3	4	5	ŏ	7	. 8	9	10	31	12	13	14,	15	16	17	18	19	20	21	22	23	24 ME	AN
1	0	0	0	0	0	0	0	1	1	1	1	1			0	0	1.	1	1	0	1	2	3	3	1
4	4	3	2	4	2	2	2	2	1	ĵ	1	1	1	,	1	1	1	00	0	0	0	1	0		
	2	3		ō	7	1	ō	ō	î	1	0	C	٥	0	1	1	O	0	0		0	0		٥.	
3	0	ŏ	ò	ŏ	ò	à	3		ż	2	6	4		1	1	1	1	1	2	1	1	0-6	2	2	2
2		3	3	3	2	3	2	3		- 1	1	2	1	1	1	1	1	1	1	1	2	2	1	1	
5	3	-	3		3	3	3	3	2		- 6	- 7	2	2	2	2	1	2	3	3	3	3	2	2	2
6	1	1	1	2		2	1		1				- 7	- 7	- 7	1	1	1	0	0	0	0	0	0	1
7	2	3	3	3	2			ò	ò	ò		- 1	- 1	- 1	o	0	O	1	1	1	1	1	1	t	٥
8	0	0	0	0	0	0	0	Ÿ	1	ĭ	ò	ò	ò	o	ő	ō	0	0	0	0			0	0	0
9	1	0	0	1	1	٥	1	1		ò	ö	ŏ	ő	ŏ	0	ŏ			ō	ō	0	0	0	0	0
10	О	1	0	0	0	0	0	0	0	U	U	·			٠	_			-	100	-57			720	-
11	1	1	0	1	i	٥	0	٥	0	0	0	0	0	0	0	0	0	0	٥	1		*	*	1	0
	1	i	٠	- 1	i	ĭ	ĩ	2	ī	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1
12		ò		ò	o		ò	- 7		0	0	0	1	2	1	0	0	1	0	0	0	O	0	٥	·
13	0	9	0	ŏ	ő	0	ŏ	ò	á	ō	ō	Ü	٥	u	Ü	U	U	U	U	U	v	v	ũ	٥	٠
14	0	0	0	0	0	·	1	ĭ	·	2	2	2				4	2	2		2	2	3	2	2	1
15	0		0	2	2	- 1	- 1			•	- 7	- 7	•	1	1	1	1	1	1	0	0	1	0	0	1
16	2	2	1			1		ò			•	•	i		0	1	٥	0		2		1	2	1	1
17	0	0	0	٥	0	0	٥	٠	1		- 3	7	ò	ó	ŏ	0	1	0	0	0	0	-			1
18	1	1	1	1	1	1	1.	1		ò	ò	ò	170		ŏ	o	0	C	C	0	0	C	0	0	0
19	0	0	0	0	0	٥	0	1	0		ő	ő				ō	ō	ŏ	ō	0	ō	0	0	0	0
20	0	0	0	0	0	0	0	0	1	0	0	U		v		•		•				_			
21	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	e	0	0	1	٥	3	2
21	Ÿ	ĭ	2	2	2	3	4	3	ī	2	1	1	1	1	1	- 1	1	1	1	2	2	2	3	3	
22		á	5	5		ă	4	4	3	3	3	3	3		2	2	1	1		2	2	2	3	3	,
23	2	2	2	2	1	7	- 7	1	- 7	1	o	0	0	0	0	0	C	0	0	0	0	0	0	٥	
24 25	ő	ő	ő	ő	ò	ò	,	1		- 1	2	0	1	0	0	0	0	1	1	1	0	0	1	1	2
25		Ÿ	ő	Ť	Ÿ	ĭ	•	•	2	2	2	2			2	2	:		2	2 3	2	2	2	2	2
26 27	1	2	2	2	à	3	À	À	Ā	5	2	3	4	3	2	2	2	2	2	3	3	3	3	3	3
27	2	4	- 2	- 4	4	2	- 2		-	4	ã	ā	4	4	5	4	4	4	4	4	5	5	à	5	4
28		- 3	4	- 7	- :	4	- 2	- 2	Ã		3	4	2	2	1	1	1	1	1	1	t	1	,	1	3
29	5	•	4	- 7	7	ō	•	7	7	1	2	i	- 1	1	1	1	1	0	1	0	0	1	2	2	1
30	1	1	1	,	1	U	٠	•			-												72		
31	1	2	2	1	1	1	2	1	1	1	1	1	1	1	3	1	,	1	2	2	.2	1	2	-	1
MEAN	1	1	1	1	î	1	1	2	- 3	,		. 1	1	1	1.	1	1	. 1	1	1	1	1	1	1	1.1

PERCENTAGE OF DATA VALID - 96.9 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLICN

STATION - WC	NO 29025 BARTON/WE	NTWORTH HAMILTON		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.5	3	9
FEB	29	1.5	4	7
MAR	31	1.9	5	13
APR	30	2.1	4	10
MAY	31	1.3	5	16
JUN	30	1.4	4	9
JUL	31	C.E	2	9
AUG	31	0.8	3	7
SEP	30	1.2	5	10
ост	31	1.0	6	11
VCM	30	0.9	4	11
DEC	31	1.1	4	6
YEAR	366	1.3	6	16

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

S	TATION - WC	NO 290	25 BAR	TON/WENTWO	DATH HAMIL	TON				
	MONTH OO	TO 05	06 TO 10	11 TO 15	16 TO 20	21 10 25	26 TO 39	40 TO 49	50 GOVER	TOTAL
	JAN	730	6	0	0	0	0	0 .	0	736
	FEB	680	4	0	0	0	0	o	o	684
191	MAR	692	47	1	О	0	0	٥	0	740
•	APR	622	84	0	0	0	0	0	0	706
	MAY	684	33	6	1	0	0	٥	0	724
	JUN	675	9	o	0	0	0	o	o	684
	JUL	733	3	٥	0	0	0	o	a	736
	AUG	719	7	0	o	0	0	0	o	726
	SEP	683	32	0	0	0	0	0	0	715
	oct	708	26	1	0	0	0	o	0	735
	NOV	711	2	2	0	0	0	o	0	715
	DEC	720	1	0	0	0	o.	٥	o	721
	YEAR	8357	254	10	1	0	0	0	0	8622

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA VALID MIN 10 CONCENTRATIONS
FREQUENCY DISTRIBUTION. PERCENT
50 70 90 95 ARITH 30 1.3 1.0 5.8 7.0 98.2 0 0.0 0,0 2.8 4.1

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESGURCES BRANCH

	POL	LUTANT	- SI	ULPH	UR DIO	XIDE								UNITS	- 0.0	D1 PAR	RTS/M	11110	N						
	STA	TION -	С	NO	31001	6	7 COL	.EGE	ST	FIFTH	FLOOR	TOR	ONTO		101	MON	тн -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	1 0 0 1 1 1 2 0 0 1	1 0 0 0 1 0 0 1	1 0 0 1 1 1 0 0 1	1 0 1 0 0 0 0	1 0 1 0 0 0 0 1	1 0 1 2 0 1 0 0 0 2	0 0 1 1 0 0 3	1 0 0 2 0 1 1 0 0 4	0011015004	00201	0001021002	000102001	0 1	1 1 0 0 0 0 1	2 0 1 1 0 0 0 0 1	000001001002	100.010102	000000000000000000000000000000000000000	0000	0001011101	0 0 1 0 0 1	0 0 1 0 0 1	0 0 1 1 1 0 0 0 2	0 0 0 1 1 2 0 0 0 2	1 0 0 1 1 0 0 2
11 12 13 14 15 16 17 18 19 20	2001000100	2 0 0 1 1 0 0 1 0 0	2011100100	2043000100	3 0 4 6 1 0 0 1 0 0 0	2 0 3 4 1 0 0 1 0 0	2 0 1 2 1 0 1 1 0 0	1 0 1 4 1 0 1 2 0 0	1 0 1 2 1 0 0 0	1 1 0	101100	0 1 1 0 2 2 0 0	0 0 1 1 1 0 2 2 0 0	10001200	1 0 0 1 1 0 0	1 0 0 2 1 0 0	10.1002100	1 0 1 0 0	1 0 0 1 1 0 0	00-000 000	00-0001000	00-0000000	000000	0 0 1 0 0 0	1 0 1 1 0 0
21 22 23 24 25 26 27 28 29 30	0 3 2 0 1 0 0 1 0 2	0 2 0 0 1 0 0 1 0 3	0 3 0 0 1 0 0 1 0 2	0400200102	0 2 0 0 1 0 1	0 2 0 0 2 0 0 1 2	0 1 0 0 2 0 0 0 1 2	0 3 0 0 2 0 0 0	020020010	0 0 1 0 0 1	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 3 0 0 0 1 0	0 1 0 2 0 1 0	0 2 0 0 1 0 0 0 0	0 0 1 0 1 0 0	0 3 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 0 0 1 0 1 0	0 2 0 0 1 0 0 0 1 0	0 2 0 0 1 0 0 0 1 0	0 1 0 0 0 0 0 0	1 0 0 1 0 1 0	2100100010	3 2 0 1 1 0 2 0	020020011
31 MEAN	0	0	0	0	0	0	o ;	1	0		0	0	0	0	G O	0	1	1	0	0	0	0	0	1	0. <b>6</b>

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	С	NO	31001	67	COLLEG	EST	FIFTH	FLOOR	TOR	ONTO			MON	TH -	FEB	80						
HOUR	1	2	3	4	5	6	7 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5	0 3 0 2	0 0 3 0 2	0 3 0 2	0 0 2 0 1	0 0 0	0 0 0	0 0 0 0 0 0 1 1	0 0 0	0	0 0	0000	0 0 0 1	0 0	0 0	0 0 		000	0 1 0 0 2	0 0	0 1 0 0 2	 0 0	0 2 0 1 2	0 3 0 1	0 0 0
6 7 8 9	0000	1 0 1 0	0 1 0	0 1 0	1 0 1 0	0	1 1 0 1 1 1	0 0 1	1 0 0	0	0 0 1	0000	000	0000	0 0	0004	0 0 0 3	0 0 0	0000	0 0 0	0	000	0 0 1	0 0 1
11 12 13 14 15 16 17 18 19	3 0 0 1 3 4 2	20002001442	2 0 1 2 1 0 1 4 5 2	2 0 1 2 1 0 1 7 6 3	1 0 1 2 1 1 2 5 5 5 3	2 0 1 3 1 1 6 5 3	2 2 1 1 1 3 3 1 1 2 2 1 1 3 5 7 3 3 3	2 1 3 1 2 1 13 5	1	1 4 2	000364	2060120654	0 7 0 1 2 0 8 5 4	04		303000343	0000-00N0	2 0 3 0  1 0 2 3	3050004241	2 0 7 0 1 2 4 3 3	060134332	2 1 2 3 1	0 4 1 0 1 1 3 3 1	2031115543
21 22 23 24 25 26 27 28	1 0 0 2 1 1 8 1 0	3001100	100300100	000000000000000000000000000000000000000	1 0 0 1 1 0 3 0 0	1 0 0 1 1 0 5 0 0	1 1 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0	001	0 1 0 1	1010001	101000-00	1010001	0 0 0 0 1 0 1	0 0 0 0 0 1	101000001	1 0 0 0 0 0 0 2	00-00000	1 0 1 0 1 6 0 0 4	3006011	500000000	0 0 2 0 0 1 0	0 0 2 0 0 1 0 0 0	0 0 2 0 1 6 0 0 1	0 1 1 0 1 1 0 1
MEAN	1	4	3	t	1	1	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.1

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	٠ \$	ULPH	UR D10	XIDE								INITS	- 0.0	1 949	RTS/M)	LLIO	4						
	STAT	ION -	C	NO	31001	6	7 COL	LEGE	ST F	FTH	FLCOR	TURC	NTO			NON 1	Гн - з	AAR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	1 5 2 1 1 0 2 1 1 1 1	2 3 1 1 1 0 1 1 1 1 2	1 1 1 0 1 1 1 1 1 1	2 5 1 1 2 0 1 1 2 1	3 5 2 1 2 0 1 1 2 1	2 5 3 1 1 0 1 1 2 1	2 2 1 0 1 1 1 1 1	232210111	2 2 1 1 1 0 1 1 0 1	1 2 1 1 2 0 1 1 0 1	2 2 1 1 2 0 1 1 0 2	201135102	1 1 4 3 1 2 6 0 0 2	3 3 2 1 3 0 1 2	1222213012	2 2 1 2 1 0 2 2	1 2 1 1 1 0 2 2	2052011021	2042013	102202302:	4 0 2 2 0 2 3 0 3 0	3 0 2 2 0 1 2 0 2 0	5012021010	5 2 1 2 0 2 1 0 1 0	2 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11 12 13 14 15 16 17 18 19	0 0 1 0 0 1	0000	0010012012	0 0 1 0 0 0 2	0000013001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 0 1 2	010000000	0 1 0 0 2 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 2 2 1 3	0100101012	0 0 0 1 0 1 1	0 0 0 0 0 1 0 1 1	01.0001011	0 1 0 0 0 0 1 0 1 1	0100101010	0 0 0 0 1 0 1 0 2 0	0 0 0 0 0 0 0 0 1	0000101003	0 1 0 0 2 0 0 0 0 3	0 1 0 0 0 0 0 3	0 1 0 0 0 1 1	0 : 1 0 0 1 1	0 0 0 0 1 0 1 2
21 22 23 24 25 26 27 28 29	1 0 1 1 0 0 0 0 0	0011000000	1011000000	000100	0 0 1 0 0 0	0	0 1 1 1 0 0 0	0 1 1 1 0 0	0 1 1 1 0 0 0	0 1 1 1 0 0 0	0 1 2 3 1 0 0 0 0 0 0	21100100	0021100100	0 0 2 1 1 0 0 0 0	0021010100	0 0 2 1 1 2 1 3 0 0	0 0 3 1 1 7 0 4 0 6	0 1 2 1 1 8 0 3	0 1 2 1 2 6 0 1 1 0	0 1 2 1 2 2 0 1 0 0	1 1 0 1 0 0	2001	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 1 2 1 1 1 0 0
31 MEAN	0	0	0	0	G 1	0	0	1	0	0	0	0	0	0	G 1	1	0	1	C 1	1	1	0	C 1	0	0 0.8

PERCENTAGE OF DATA VALID - 99.5

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.GI PARTS/MILLION

	STA	TION -	¢	NO	31001	,	67 COL	LEGE	ST F	FTH	FLOOR	TOR	OTAC			::ON	TH	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
4	0	0	0	0	0	1	Ĩ	ï	1	120	0	0	0	,	0	٥	o	c	0	0	0	0	0	1	0
2	1	1	1	0	0	1	1	0	0	0	0	o	0	0	•	,	ī	- 1	ĩ	ĭ	ŏ	ŏ	1	i	ĩ
3	0	0	0	0	1	0	-16	*	ō	o	0	- i		ō	o	0	0	û	ò	ò	ŏ	õ	o	ò	ó
4	0	0	0	0	0	0	O	0	ō	ō	ĩ	1	i	ĭ	č	0	ŏ	o	ō	o	ŏ	ŏ	o	ŏ	ŏ
5	0 0 0	0	0	0	0	0	0	0	ŏ	ā	o	o	ò	ò	ŏ	o	ō	ŏ	ŏ	õ	ŏ	ŏ	ŏ	ŏ	ŏ
6	0	0	ŏ	0	0	0	0	ō	ă	ŏ	o	ŏ	ŏ	ō	ŏ	ŏ	č	ŏ	0	ŏ	ŏ	ŏ	ŏ	0	č
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9	0	0	ò	0	o	0	o		- 1	ò	ŏ	ō	õ	ĭ		ĭ	č	õ	0	0	1		ő		
10	0	ō	ŏ	ŏ	- 7	Ö	ŏ	ó	ò	ŏ	ĭ	ř	ŏ	ò	o	ò	ŏ	3	ĭ	ĭ		3	1	0	0
			•			U			•	•	98		•	U	U		U	3	1	1		3	210	- 1	Ü
11	0	0	0	0	0	0	0	0	0	0	0	0	•	1		3	2			-	- 2	_		4	
12	ī	ŏ	ŏ	ŏ	ĭ	,	ĭ	ŏ	ŏ	ŏ	õ	·	0	Ċ	0	3	•	1	3	1	1	3	0	1	7
12	ò	ŏ	ŏ	ŏ	ó	ò	ò	ŏ	ŏ	ŏ	Ö	ò	ŏ	ŏ	ò	ō	ō	ô	ž	0	9	0	ō	=	
14	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	ŏ	ŏ	o	o	0	3	0	õ	0	0	0	0	0	o	0	0
16	ĭ	ĭ	·	•	3	•	2	2	Ÿ		2				•	U			0	0	٥	0	2	1	Ö
1.6	ò	ò	ż	ò	0	ō	ő	ő	- 1	1	*	2	2	2	. 2	1	C	0		1	0	0	0	٥	
17	Ÿ	ř	٠	•	2	2	2	2	0	0	Ų	0	0		• • •	٥	0	0	0	0	1	1	0	1	0
		,	1	- 1		- 2	2	-		-	1	3	. 2	0	0		2	3	2	1	1	1	1	1	,
15 16 17 18 19		·	- 1	- 1	1	- 1	1	1	- 1	1	0	. 1	3	1	4	4	3	3		٥	0	0	•	•	
20	à		1		1			4	- 1		1		1	2	2	2	2	2	1	1	2	2	•	2	1
20	3	30	-1	1	,	1	1.	1	1	,	1	0	0	,	2	0	٥	0	0	0	0	0	0	1	1
21	1	1	0	1	٥	0	1	0	0	0	0	0	0	0	0	0	٥	0	0		0			9	0
22	1	1	0	1	1	•	0	0	ò	0	C	0	0	ō	0	ō	o	ō	ō	0	ŏ	٥			õ
23	0	0	0	0	0	•	1	1	i	0	0	0	ō	ō	ŏ	- 7	ī	ĩ	ŏ	ŏ	ŏ	ŏ	0	ò	ŏ
24	0	0	0	0	0	٥	0	o	ò	o	ō	õ	ŏ	o		1	ò	ò	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ň
25	0	0	0	0	0	0	0	0	ñ	ō	0 *		ō	- 1		4	7	ĭ	2	ĭ	·		•		ĭ
26	1	1	ĭ	1	ī	1	1	ĩ	1	7	1		ĩ	,		1	4	÷	•		- 1				
27	1	0	ò	ò	0	i		•	4	- 1	- 1	ò	ò	ò	ò	ò	ó	ò	ò	ò	ò	ò	ò	ò	'n
21 22 23 24 25 26 27 28 29	ò	0	õ	ŏ	ō	0	ò	ó	ò	'n	ò		- 1	•		1		1	Ÿ		Ÿ			ĭ	٠
29	1	ī	1	2	2	2	2	ĭ		ĭ			1	-	:	2		,	- 4	2	1		2	-	
30	3	2	2	2	3	3	5	à	3	2	3	5	4	2				3		2	3	2	ő	0	
	-	-	-	4	3	3	3	,	3	2	3	3	4	-	7.	1	4	3	3		10	- 1	U	J	2
MEAN	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	,	1	1	1	0	1	1	0	1	0.6

PERCENTAGE OF DATA VALID - 98.6 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. " ... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- s	ULPH	UR DIQ	IDE							UNITS	- 0.0	DI PAR	TS/MIL	LION	•						
	STAT	ION -	c	NO :	31001	61	COLLEG	E ST	FIFTH	FLOOR	TORC	ONTO			MONT	н - ма	4	80						
HOUR	1	2	3	4	5	6	7 8		9 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0024311000	0 0 2 4 3 1 1 3 1 0 0 0	0 0 3 4 3 1 0 0 0	0 0 2 3 3 2 1 1 0 0	3 3 1 0 0	0 2 3 3 1 2 1 0 0	0 0 0 2 4 3 3 3 2 2 2 3 3 3 1 1 1 2 2 1 1 0 0 0 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 3	3 2 2 1 0 1 0 3	0 8 3 3 0	0 6 8 3 2 0 0 1	1 6 4 4 0 0 1 0	1 7 2 4 0 0 0 0	10 2 4 0 2 0 0 0 1	3 · · · 4 2 6 0 1 0 0 0 1	2 2 4 0 1 1 0 0 1	1222011001	222011000	2222141000	0 2 2 2 1	0332121001	0 2 3 2 1 1 0 0 3	0 3 3 3 2 1 1 0
11 12 13 14 15 16 17 18 19	4 0 2 0 0 2 3 2 2 0	2020022220	2 1 2 0 0 2 2 2 2 0	012002220	5 2 0 0 2 1 2 2 0	2630231220	1 1 2 2 2 2 0 0 2 2 3 4 4 3 2 2 2 2 2 0		1 3 1 C 1 1 0 1 1 1 2 3 3 3 2 2 2 2 2 2	1 1 1 4 1 2 2 2 2 2	1 1 5 1 2 3 1	2 2 1 1 4 2 3 2 2	1 2 2 3 1 7 4 2 2 2 2	1 2 3 0 1 6 2 . 2 1	0 2 2 0 1 6 2 2 2 1	0 2 4 0 1 8 2 2 2 1	0 1 5 2 2 3 1	0 3 0 0 1 1 2 2 2 1	0 3 1 0 1 1 2 2 2 1	0230121231	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 1 2 1 2 2 1	0	2 0 1 3 2 2 2 1
21 22 23 24 25 26 27 28 29 30	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	1 1 0 0 0 0 0 0 0 1	2 1 0 0 0 0 0 0 0 1	000000000000000000000000000000000000000	20000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 6 6 0	2 2 2 1 0 0 3 1 3	1 2 2 1 0 0 0 2 2 4	1 2 3 0 0 0 1 3 5	5000115	0 7 0 0 0 0 :	0 0 0 3 0 3	2022000103	20:1301302	100001002	100000000000000000000000000000000000000	1010003202	1 0 3 0 0 1 1 2 0 2	1 0 1	1 0 0 1 0 0 0 1	1 1 0 0 0 0 1 0 2
31 MEAN	1	1	1	1	1	1	1 2	:		2	2	2	1	1	•	1	×	•	1	1	1	1	1	*
ME AN	1	1	1	1	1	1	1 1		2	2	2	2	2	2	2	2	1	3	1	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	· c	NO	31001	6	7 COLL	EGE	ST F	IFTH	FLOOR	TORC	ITO			MONT	ч .	UN	90						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	• 7	13	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	010000000	100000000	000000000000000000000000000000000000000	1100000000	- 00000	1100000000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2100000000	1 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	150000000	000000000000000000000000000000000000000	500000000	200000000	00000000	21:0000000	0 2 0 0 0 0 0 0 0	1010000000	.000000000	0010000000	00-0000000	1000000000	1100000000
11 12 13 14 15 16 17 18 19	00000000	000-000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 1	0011000100	0211001100	0 1 1 0 0 1 1 0 0	0 1 2 0 0 0	0 1 1 0 0 2 2 2	22000	0 1 1 0 0 2 1 0 0	00001100	0 0 1 0 0 0	0 0 0 0	000000000	0020001000	000000000000000000000000000000000000000	002000000	0010000100	001001200	0 0 1 0 0 0 1 1 0 0	0000000		0011001100
21 22 23 24 25 26 27 28 29 30	0001221100	0 0 0 1 2 2 1 1 1 0	0 0 0 1 1 9 1 0 1	0 0 0 1 2 3 1 0 1 0	0 0 0 1 1 1 0 0 0 0	0 1 0 1 1 2 1 0 1 0	0 0 1 2 2 3 1 0 0 0	0023371010	0 0 2 3 3 7 1 0	0 1 2 3 3 6 1 0	1 1 2 4 2 5 1 0 : 0	0 1 2 4 2 4 1 0 1 0	0 1 2 3 2	0 0 1 5 2 2 1 0 1 0	1 0 1 3 1 0 1 0	0 0 1 2 2 2 1 0 1 0	0 0 1 3 3 1 0	3 2 3 2 1 0 1 0	1 0 4 2 5 0 1 0 0 0	2 2 2 0 1 0 0 0	0 3 1 5 1 1 0 0 1	0 1 1 4 1 1 0 0 1	2221001	1 0 1 2 3 1 1 0 0 1	3231010
MEAN	0	0	1	0	٥	0	r	1	1	1	1	1	•	1	1	,	0	1	1	0	1	٥	0	0	0.6

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	- S	SULPHI	R DIO	CIDE							1	JNITS	- 0.0	PAR	RTS/MI	LLIO	N						
*1	STA	TION -	c	NO :	31001	67	COLL	EGE :	ST F	IFTH	FLOOR	TOR	ONTO			MONT	гн - ј	UL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2	0	0	0	0	0	1	0	1	1	0	1	1	0	1	0	1	0	1	0	1	0	0	1	0	1
3	0	0	0	1	1	1	0	1	1	1	1	1	1 2	5 2	1	2	2	1	1	1 2	1	C	000	0	1
5	0	1	1	1	i	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	1	0	0	0	1
7 8	0	0	0	0	0	0	0	0	2	2	1	0	0	3	0	0	0	0	0	0	0	0 0 0	0	0	0
10	0	0	0	0	0	0	0	1	1	2	0	0	0	2	1	0	0	0	1	3	0	1	0	0	0
11	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	00	0	0	0	0	0
13	0	0	000	0	0	000	0000	0	0	0	0	Ü	0	o	000	Ų	2	ŭ	0	3	10	7	č 3	3	2
15	0	0	1	1	2	3	0 2 0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0
17 18	1	0	1	1	0	0	1	٠.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	1	;	1	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	0	2	2	1
21 22	2	1	1	1	;	1	1	2	2	2	2	2	2	2	1 2	1 2	3	1 2	1 2	1 2	1	1	1	1	1
23 24 25	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1 C	0	6	1	1	1	;	0	0	0	1
26	0	0	0	0	0	0	0	0	0	0	0	0	00	00	0	0	0	0	0	000	0	0	0	0	0
27 28 29	0	0	0	0	0	0	0	0	0000	0	0	0	0	00	0		0	0	0	0	-			0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	٥	0	0	0	0	0	0	1	Ĭ	٥	0	0	0	0	a	0	0	0	0	0	U	Ü	٥	U
MEAN	0	0	0	0	0	0	0	0	1	1	1	1	1	- 1	0	0	t	0	0	t	1	1	0	٥	0.5

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- ¢	NO	31001		67 CO	LLEGE	ST F	1FTH	FLOO	R TOP	ONTO			MON	iTH -	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 1	0000000011	0 0 0 0 1 1 1 1 1	000000101	000000000000000000000000000000000000000	0 0 0 0 0 0 0 1 1 1 1	0 0 0 0 0 1 3 1 1	0000001211	0100101210	02001111	1 0 0 1 1 1 1 0	0 1 0 0 1 1 1 0	0010213110	0000102110	0000101410	0000101210	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 1 1 0	000000100	000000100	000000-00	0 0 0 0 0 0 0 1 1 0	0 0 0 0 0 0 1 1 0	0 0 0 0 0 0 1 1 1 0
11 12 13 14 15 16 17 18 19	0 0 0 1 0 0 0 1 0	0 0 0 0 0 1 1	0000000010	0000000011	000000010	00000000000	000000000000000000000000000000000000000	0000000000	0 2 0 1 0 0 0 1 1	0001000011	000000000000000000000000000000000000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000-0		000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 2 0 0 0 0 2 1 0	000000110	0 0 0 0 0 1 1 0	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 1 0	000000000000000000000000000000000000000	100022000	0100022000	0100022000	1 1 0 0 0 0 2 2 0 1 0	1 1 0 0 1 - 2 0 0 0	1 1 0 0 1 3 1 0 0 0	0 1 0 1 0 2 2 0 0 0	0 1 0 1 3 4 0 0	0 2 0 1 1 3 4 0 0	3000	1 0 0 0 1 3 3 0 0 0	1 0 0 0 1 2 4 0 0 0 0	0100124000	0 1 1 0 0 2 3 0 0 0	0 1 1 0 0 0 2 1 0 0 0 0	000000000000000000000000000000000000000	0001231000	0000221000	0000120000	1000320000	0000210000	0 1 0 0 1 2 2 0 0 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 97.2 PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	. :	SULPH	UR DIC	XIDE							Ļ	NITS	- 0.0	1 PAR	T5/M[	LLION							
	STAT	TION -	С	NO	31001	6	7 COL	LEGE	ST FI	FTH	FLOOR	TORC	NTO			MONT	н - s	EP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0	0 0 0 1 0 0 0 1 0	0 1 0 1 0 0 0 1 0	0200000010	1,00	0 0 0 1 1 0 0 1 1 0	000-0000-0	0 1 2 1 0 0 0 0 1 0	0 1 3 1 0 0 0 1 1 0	003000100	30000	0051000200	0022000100	001.000000	000000000	0001000000	0001000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	0000000000	000000000	0000010000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0	0001.00000	0 0 0 0 0 0 0 2	000000000000000000000000000000000000000	0 0 0 0 0 0 1 0 0 0 3	000000000	000000000	000000101	000000-00	0000000000	000000000	0000000000	0000000000	0000000000	00000-0000	0000000000	0000000000	000000000	000000001
21 22 23 24 25 26 27 28 29	000001	0 0 0 0 0 0 0 0 1	000000000	0 0 0 0 0 0 0 1	000000001	000000000000000000000000000000000000000	0 0 0 0 0 0 7	000000013	0 0 0 0 0 0 1 3	0 0 0 0 0 1 0 1 6	0 0 0 0 1 0 0 0 4	00002	0000100042	0 0 0 0 1 0 0 1 4 3	0 2 0 0 0 0 1 1 5	0 0 0 0 0 1 1	14002000013	2100100023	1 1 0 0 1 0 0 1 1 1	0000300014	0000000004	000000000	0 0 0 0 1 5	0 0 0 0 0 1 1	0 0 0 0 0 1 3
MEAN	0	0	0	0	0	0	0	0	0	1	•	1	0	1	1	0	1	Ť	0	٥	G	0	0	C	0.3

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 0.6

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - C.C. PARTS/MILLION POLLUTANT - SULPHUR DIOXIGE WONTH - OCT 80 STATION - C NO 310C1 67 COLLEGE ST FIFTH FLOOR TORONTO 24 MEAN : 6 HOUR 200-0-1 2 3 4 5 6 7 8 9 10 000000-11 -00000 10000-2 000-12 0 2 1 1 2 1 0 0 1 0 1 0 1 1 000+ 0000-0-000 0000-0-000 000----000 12 13 14 15 16 17 18 19 20 0-0-100-0---00 0 2 0 1 0 1 0 1 22 23 24 25 26 27 28 29 30 00. 000-00000 000000-001 -000000 00-0000000 000-000-00 -00000N 

PERCENTAGE OF DATA VALID - 96.9

a

MEAN

PERCENTAGE OF DATA INVALID . 2.0

o

> PERCENTAGE OF DATA UNAVAILABLE -1.1

0.5

NOTES 1. ---- INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE 67 COLLEGE ST FIFTH FLOOR TORONTO MONTH - NOV STATION - C NO 31001 24 MEAN 8 ' HOUR 000000-000 00-000-0-0 .000-000 0-00000+ 0000-0000-011-0200001 00-0000000 12 13 14 15 16 17 18 19 20 000-000000 000-0-2000 22 23 24 25 26 27 28 29 30 2 0 2 1 0 0-42000-00 3 0 2 1 0 -000 0 - 0 0.6 MEAN

PERCENTAGE OF DATA VALID - 98.6

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE 2.

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT . SULPHUR DIOXIDE

ministe and on proceedings tow

	STA	TION	. с	NO	31001	6	7 COL	LEGE	ST F	LETH	FLOOR	TOR	OTAC			tion	тн -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	MEAN
1 2 3 4 5 6 7 8 9	2 1 0 0 0 1 0 2 0 0	1000001200	10000002200	1000	0 0 0 0 1 3 1 0 0	100000000000	1000010100	1 0 0 0 1 0 1 0 0	1 1 0 1 0 1 0 0	1 0 0 0 1 0 0 0	00000-00	00000210	0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.00000.00	5202000.10	0000000	12000010	1200000000	0100002000	-000-020-0	100.1030.0	100000000000000000000000000000000000000	1 15 0 0	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000110200	0000010200	00000000000	0000010000	1 0 0 0 1 1 2 0 0	0 1 0 0 0 1 1 1 0 0	3 1 0 0 0 1 1 1 0 1	0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 1 0 3 1 6 0 . 0	0 0 4 1 3 0 0	0100311000	0 1 0 0 2 1 1 0 0 0	0 2 0 0 3 4 0 0 0	02001000	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	1 5 0 2 1	0 3 0 1 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 2 1 0 0
21 22 23 24 25 26 27 28 29 30	0 0 4 3 0 1 2 4 6 6 1	0 0 7 3 0 1 2 3 5 2	0 0 8 3 0 1 2 3 6 2	0 0 10 3 0 1 3 2 6 2	0 1 7 3 0 1 3 4 6	0 1 7 2 0 2 5 8 4 2	0 2 6 2 0 7 7 7 7	0 2 5 2 0 4 6 5 3	0 2 6 2 1 4 3 5 3 1	0 2 6 1 3 3 2 4 4	0 3 5 0 4 3 2 4 3 1	044025	0 4 5 0 6 5 1 7 2	0 3 4 0 10 4 1 6 2	0 3 3 0 7 4 1 5 2 0	0250162420	0 2 3 0 0 7 1 7 2 1	3 - 5 2 1	0 1 2 1 4 1	0 1 2 0 1 2 1 4 1 1	0 1 2 0 0 2 2 4 1 1	0 2 2 0 1 2 3 4 1 1	0 2 3 0 1 2 3 4 1 1	0 4 3 0 1 2 3 5 1 1	0 2 5 1 2 3 2 5 3
31 MEAN	1	1	S 1	1	1	,	1 2	1	1	,	,	,	1	0	1	1	1	1	1	1	1	1	,	1	1 1.2

PERCENTAGE OF DATA VALID - 96.0 PERCENTAGE OF DATA INVALID - 2.2

PERLENTAGE OF DATA UNAVAILABLE - 1.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C	: 40 31001 67 COLLEGE S	T FIFTH FLOOR TORONTO		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.5	2	6
FEB	29	1.1	5 .	13
MAR	31	0.8	2	8
APR	30	0.6	, 2	5
MAY	31	1.3	3	10
JUN	30	0.6	3	9
JUL	31	0.5	2	10
AUG	31	0.4	2	5
SEP	30	0.3	3	7
ост	30	ò.5	2	8
MOV	30	0.6	3	8
DEC	31	1.2	5	15
YEAR	365	0.7	5	15

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION . C	NO 310	01 67	COLLEGE ST	FIFTH FL	OOR	TORONTO				
MONTH OO	10 05	06 TO 10	11 TO 15	16 TO 20	21	TO 25 26	TO 39	40 10 49	50 SOVER	TOTAL
JAN	734	1	0	0	E.	0	0	٥	0	735
FEB	655	18	2	٥	E	0	0	. 0	0	675
MAR	736	4	0	0	Ki.	0	o	٥	0	740
APR	710	0	0	0	13	0	0	٥	0	710
MAY	713	16	0	0	E	0	0	٥	0	729
JUN	708	. 4	0	0	le .	0	0	٥	0	712
JUL	735	3	0	0	E.	0	0	٥	o	738
AUG	723	0	0	0	iz.	0	0	٥	0	723
SEP	712	2	0	0	ie.	0	0	0	0	714
OCT	719	2	٥	0	Ę.	0	o	٥	0	721
NOV	706	4	0	0	E.	0	0	٥	٥	710
DEC	687	26	1.	٥	Œ.	0	0	٥	٥	714
VEAD	8538	80	3		F)	0	0	0	0	8621

FREQUENCY DISTRIBUTION BY PERCENTILES

FREQUENCY	PERCENT	ION BY	PERCENTILES			CONCEN	TRATIONS				7	
	OF DATA				FRECUENC	Y CISTA	BUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
				0.0		0.4		2 6	2.0	5.0	14	0.7

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POLL	TANT	- s	ULPH	UR D10	XIDE							u	NITS	٠٥.	O1 PAR	RT5/M1	LLIC	N						
	STAT	ION -	C	NO .	31105	н	YDRO	SS SHI	ERBOU	RNE/W	ILTON	Sī.	TORONT	0		MON	н - ј	AN	80						
I-OUR	1	2	3	4	5	6	7	8	9	10	TÎ.	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	20001212002	2 0 0 1 1 1 1 0 0 1	2 0 0 1 1 1 1 1 1 1 1 1	1 1 1 1 0 1 1 2	100122	1 1 2 1 2 0 2 2 2	0 1 1 2 1 2 0 2 2 4	3 1 - 2 0 2 1 3	1 1 3 1 2 0 2 1 3	1 1 3 2 2 2 1 1 1	0 1 1 2 2 2 2 1 2 1	0 1 2 2 1 1 1	0 0 1 2 1 0 1 1 1 1	5 1 0 0 1 1 1	1 4 0 1 0 1 1 2	2 1 3 0 1	1017201	1 0 1 1 0 1 1 9 0 0	1011016710	0012102310	0011101210	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 2 2 2 1 1 1 1 1 1 1	0 0 1 2 2 2 1 2 1 1	1 2 1 1 1
11 12 13 14 15 16 17 18 19	204011100	4 0 4 0 1 0 0 1 1 0	2030101010	1 0 7 1 1 0 1 0 0 0	1 0 6 1 0 0 0 0	103111000	1 0 1 1 2 1 3 0 0 0	1 0 1 1 2 1 3 0 0 0	0011302000	0 0 1 3 0 2 0 0 0	0 0 0 2 2 1 1 1 0 0	000211100	0002110100	1		0 0 1 1 0 0 0 0	000-0-000	0 0 1 0 1 0 0	0 1 0 1 0 0	0101010100	0 1 1 1 0 1 0 0 0 0	1 1 0 0 1 0	0 1 1 1 2 1 1 1	0 1 1 0 0 0	1 1 1 1 0 0 0 0
21 22 23 24 25 26 27 28 29 30	2 2 0 2 2 1 1 0 3	1 2 1 0 1 2 0 1 0 3	0 2 1 0 1 2 0 2 1 3	0300210303	0 1 0 0 2 2 0 2 1 2	0 1 0 1 2 0 1 2 3	1 0 0 1 2 3 0 1 2 3	1 0 1 1 4 2 0 2 1 2	1 0 1 1 4 1 1 1 2 1	3	0 0 0 7 0 0 1 0	0 1 0 0 5 0 0 . 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3005	0 0 1 0 0 1 1	0 0 1 0 0 1 2	0200200120	0300200210	0210302010	2 1 1 0 2 0 0 1 1 1 .	0 1 0 0 2 0 1 2 0 1	1 3 0 1 1 0 1 1 1 1 1 1	1 2 0 1 1 1 2 0	1 2 0 1 1 0 2 1	0 2 0 0 3 1 0 1 1 1 1
31 MEAN	0	1.	1	1	0	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	0	0	0.9

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	STA	TION	• с	NO S	1105	H	TYDRO	SS S	HERBO	URNE,	WILTO	N ST.	TORON	TO		NON	гн - г	FEB	80						
DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	EAN
1 2 3 4 5 6 7 8 9	0 1 4 1 1 1 1 1 1 1 1 1 1 1 1	0 1 4 1 2	0 1 3 1 2 2 1 2 2 1	0 1 2 1 1 2 1 2 1 1 6	0 1 1 1 1 3 1 2 2 1 1 5	1 1 1 2 1 2 2 2 2 5	1 1 2 2 1 2 2 2 2 2	1 1 2 1 1 2 2 3 5	2 1 2 3 1 2 4	1 0 1 2 1 1 1 1 2 3	1 1 2 2	0 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0	0 0 1 0 0 1 1 1 1 8	0 0 1 0 0 1 1 1 8	0 0 1 0 2 0 0 1 1 1 1 5	300011111	0 0 1 0	0 - 1	0 1 1 0 3 1 2 1 0 1	0 1 1 0 3 1 1 1 1 1 1 2	1 1 0 3 1 1 1 1 1 1 1 1 1 1	0 1 3 1 1 1 1 1 1	0 3 0 1 3 1 1 1 5	0 4 1 1 2 1 1 1 4 4 1	0 1 1 1 2 1 1 1 1 2 2 4
12 13 14 15 16 17 18 19	1 2 11 2 1 1 6 4	1 5 2 1 5 5 4	1 2 4 3 0 1 5 6 4	1 2 4 4 0 1 6 8 5	5 3 1 2 6 6 5	1 4 3 1 2 4 6 5	2 1 5 3 2 2 3 6 6	2 2 5 3 2 1 5 10 6	2 2 6 1 2 1 8 5 5	255	10 4 0 1 1 6 4 5	11 2 1 1 1 7	1 9 2 1 0 1 1 4 4 5	1 2 2 1 1 2 3 6 5	9	2 1 0 2 4 5 4	0001454	3 2 1 1 3 5 3	3 2 1 1 2 3 4	3 2 1 1 5 2 5 3	5 2 1 2 7 3 5 4	10 2 1 3 6 2 6 4	8 2 1 3 8 2 5 4	: B 2 1 2 8 3 6 4	5 3 2 1 3 5 6 4
21 22 23 24 25 26 27 28 29	3 0 1 1 0 0 0 1	3 0 1 1 0 0 0 1	3 0 0 1 0 0 1	3 0 0 1 0 0 0 1	3 0 0 1 0 0 1	3 3 0 0 1 0 3 0 1	3 3 0 1 1 0 0 1	3 0 0 1 0 2 0 1	3 0 1 1 0 1	3 3 0 1 1 0 1 0 1	3 3 1 0 1 0 1 0 1	3 2 1 1 1 1 0	3 2 1 1 0 0	3 2 1 0 1 0 0 1	3 2 1 0 0 0	3 2 1 1	3 0 1 1 0 0 0 1 1	3 0 1 1 0 1 2	300202014	201203022	201205031	2002020	300201012	3002000-2	3 2 0 1 1 1 0 1
MEAN	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4:	7	1	2	2	4	4	4	1.0

PERCENTAGE OF DATA VALID - 97.7 PERCENTAGE OF DATA INVALID - 2.0 PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POL	LUTANI	- :	SULPHU	R DIO	XIDE							,	UNITS	· o.	01 PA	RTS/M	ILLIO	N							
		STA	TION -	С	NO 3	31105	,	HYDRO	SS 5	SHERBOU	RNE/W	ILTON	ST,	TORON	ТО		NON	тн -	MAR	80							
HO	NUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	3 1 3 3 4 7	2 4 2 2 1 0 2 1 1 2	2 4 2 3 1 1 1 1 1 2	251511121	252611121	253211121	2543111121	2636111121	2 5 6 1 1 1 2	1 3  8 1 1 2 1 2	1 1 2 4 2 1 1 1 2 2 1	2 2 3 2 1 1 1 1 1	1 2 3 3 1 5 7 1	1 2 5 4 1 1 7 1 2 1	1 2 3 2 2 1 3 0 2	1 2 2 2 2 2 1 2 0 1	2 2 2 1 1 0 2 1	3 2 1 1 1 2 2	1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 3 2 1 1 1 1	2 1 6 2 1 2 1 1 3	2 1 8 3 0 1 2 0	3 1 6 2 1 1 2 0 3	3 1 4 1 2 2 0 2 + + + + + + + + + + + + + + + +	4 2 1 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 1 2 1 2 1
111 12 13 14 15 16 17 18	! ! ! ! !	1 0 1 1 2 1 0 1 3	1 1 1 2 1 0 1 3	1 1 1 3 1 0 1 4	1 1 1 3 1 0 1 3 3	1 1 1 2 0 1 2	1 1 2 0 0 1	1 1 0 2 0 1 1	211112002	2 1 1 1 1 3 0 0	1 1 2 0 1 2	1 1 1 1 2 0 1 2	1 2 1 2 0 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1	1 1 0	1 1 2 0 0 0 1 1	1 1 1 2 0	1 1 1 1 0 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 3 2	1 2 1 0 3 1	1 1 3 1 0 2 3 2	1 1 2 1 0 1 3 2	1 1 3 1 0 1 4 2	1	2
21 22 23 24 25 26 27 28 29		2 0 0 0 1 1 0 1 1 0 0	2 0 0 0 1 1 1 1 1 0	200011000	1 0 0 0 1 1 1 1 0 0	2000	0 0 0 1 1 1 1 0 0 0	1 0 0 0 1 1 1 1 0 0	00001112000	0 0 0 1 1 1 0 0	0 0 0 1 1 1 1 0 0	0 0 0 1 1 1 2 0 0	1 0 1 0 1 1 1 1 2 0 0	1 1 2 0	1 1 1 0 0 0 0 0	1 0 0 0 1 1 1 1 2 0 0 0	0 1 1 1 2 1 2 0 0	0 0 1 1 1 4 2 1 0 0	0000151100	0 0 0 1 2 4 1 2 0 0	0 0 0 1 2 3 1 1 0 0	0001130200	0 0 0 0 1 1 2 1 2 0 0	0 0 0 1 1 1 1 0 0	0 0 0 1 1 0 0	1 2 2 1 1 1 1 0 0	2
31 MEA		1	0	0	1	1	1	0	1	,	1	1	. 0	1 .	1	1	1	1	0	1	0	. 1	. 0	1	0	1.2	

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 3.5 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. "---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXICE UNITS - 0.01 PARTS, MILLION WONTH - APR 80 STATION - C NO 31105 HYDRO SS SHERBOURNE/MILTON ST. TCROSTO 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 HOUR 1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 332210430 34221 332211 1 0 2 3 3 3 21 22 23 24 25 26 27 28 29 30 0 5 1 0 2 0 0

PERCENTAGE OF DATA VALID - 88.2

MEAN

PERCENTAGE OF DATA INVALID - 10.7

PERCENTAGE OF DATA UNAVAILABLE - 1.1

1.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

. 2

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY WEAR IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	. 51	JLPHU	R DIOX	IDE						1	JNITS	- 0.	OI PAS	R15,MI	LLICE	V						
	STAT	TION -	c	NO 3	1105	HYDI	0 55	SHERBO	JANE/	WILTON	ST.	TORON	10		1404	TH - M	AY	80						
HOUR	1	2	3	4	5	6	1	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15	0011221110001000002	0 1 1 2 2 1 1 2 0 2 0 0 0 0 0 0 2	0213212201 0000001	026521100 0000001	0233211100 000000	0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0222211010000010	0222210010 00000100	0 N N N N 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00012	02222100000	2 2 2 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N3NN - 0000 00000 0	2212211001 0000011	2113210001 00000100	3212110000 00 0000	3212110010 01010000	NN13110010 0-00000	121211010000000000000000000000000000000	1112121000 0=000100	1 1 2 1 1 2 0 1 1 1 0 0 2 0 0 2 0 0	22221110000000110
18 19 20	0	0	0 0 0	0	0	0		0 0	0	0	0	0	0	0	0	000	0	G	0	0	0	0	0	0
21 22 23 24 25 26 27 28 29 30	0000	000000000000000000000000000000000000000	1 0 0 0 1 0 0 0 2 1	1000100021	1 0 0 0 0 0 0 1	1		0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1	00000	0 0 0	0000	000	000000000000000000000000000000000000000	60000	1025100212	1013000013	1 0 0 0 0 0 0 3	102000110	1 0 2 1 0 0 1 1 1 0	10000120	0 0 0 0 1 2 0	0 0 1 1 0 0 0 0 1 0	1 0 0 1 0 0 0 1 0	1 0 1 1 0 0 0 1 1 1 1
31	0	0	0	0	0	1	1	1 1	1	1	1	1	1	Ÿ	1	,	1	1	1	U	ن	ن	Ü	:
MEAN	0	10	t	1	1	1		1 1	1	1	1	1	1	1	1	1	1	1	-1	1	1	0	1	0.7

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE . O.O.

- 2. " " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	SI	OITAT	N -	C NO	3110	5	HYDRO	SS	SHERBO	URNE	WILTON	v ST	TORO	NTO		MO	NTH -	JUN	80						
							6540												-						
DAY	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0		0	0	0	0	0	0	0	•	1	1	1	1	1	1	,		- 4	1	0	٥	٥	0
2	1	1	1	1	0	1	1	1	1	1	2	2	2	2	2	1	2	2		- 4	î	ī	1	1	1
. 3	i	1	1	1	1	1	1	1	1	1	1	1	1	1	- 7	1	1	1	2	2	1	2	2	2	1
4	2	2		1	1	3	1	1	1	0	0	0			1	0	0	0	1	7	î	1	ō	0	1
5	2 2 2 2	0			0	0	0	1	1	1	0	1	0	1	1	1	1	1	2	1	,	1	0	1	1
6	2	1	1	1	1	0	1	2	2 2	2 2	2 2 2	1	1	1	1	1	*	1	1	1		1	1	1	1
7	2	2	1	1	1	1	2	2	2	2	2	2	0	0	0	0	2	0	0	0	0	0	1	1	1
8	2	2	1 2	- 2	1	1	1	1	1	1	2	1	1		2	1	1	1	1	1	1	1	1	- 1	1
9	2	1	2	2	2	2	2	3	3	2	2	1	1	1											*****
10												-	DATA	INVA	LID -										
11		****					****	***										- 6	1	0	:		•	0	
12	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	î	1	ĩ	•	- 1		- 1	1
13	1	1	1	1	2	1	1	2	2	1	2	2	1	- 1		2	1	i	1	1	- 1	i	1	1	1
14	1	1	1	0	0 0	0	1	0	ō	1	1	1	2	1	1	0	0	Ó	o	0	ò	ó	0	0	1
15	0	0	0	0	0	0	0	0	0	0	1	1	2	2	1	000	1	1 0	1	0	0 0 0	0	0	0	0
16	0	0	0		0	٥	0	0	0	1	1	1	ō	1	0	0	0	0	0	0	ō	0	0	0	0
16 17	0	0	0	0	1	1	1	2	1	2	1	1	1	1		1	1	o	0 0 0	ŏ	ĭ	1	1	1	1
18	1	1	1	1	1	1	1	1	2	1	1	1	0	1	1	1	- 1	1	ō	1	o	1		1	1
19													DATA	INVA	LID -						-				
20												٠	DATA	INVA	LID -										
21													DATA	INVA	LID -										
21 22 23 24 25 26 27 28														INVA			*								
23														INVA											
24														INVA											
25														INVA											
26														INVA											
27							****						1	0		0	1	1		1	1		1	1	
28													DATA	INVA	LID -					141	100				
29														INVA											
30	****			****	****		****	****		****						0	0	0	0	0	0	0	0	U	*****
MEAN	1	- 1	1	,	1	1	•	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 55.6 PERCENTAGE OF DATA INVALID - 44.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	orrn	TANT	•	SULP	HUR D	OXID	E							UNITS	٠ ٥.	01 PA	RT5/M	ILLIO	N						
	s	TATI	ON -	•	NO	3110	5	HYDRO	S <b>S</b>	SHERBO	URNE	/WILTO	N 57	TORON	OTO		MON	th ·	JUL	80						
DAY	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
3	0		0	0000	0 0 0	000	000	0	0	0 0		0	0	0 1 0 0	0 1 1 1	3	0 1 0 0	1 1 0	0 1 1 0	0	0 0 1 0	0 1 0	0	0	000	000
6 7 8 9	0		0 0 0 0 0	00000	0000	0	0 0 0	00000	0000	0 1	0000	0 0 0	101000		0 0 0 0	001000	00000	0000	00-000	00000	00000	000000	000000	00-000	00-000	0000
11 12 13 14 15 16 17 18 19	0000		0000-00000	0000100000	0000100000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 1 1 0 0 0 0 0	000000000000000000000000000000000000000	80000	0 0 4 0 0 0 0 0 0	0001000000	00000.0000		0000000000	0001000000	0001000000	0000000	000-000000	0005000000	0001000000	0007000000	0001000000	000100000	0001000000	00000000
21 22 23 24 25 26 27 28 29 30	0000	•••	000000000000000000000000000000000000000	000010000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 1 0 0 0 0 0	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000	0001000	000000000000000000000000000000000000000		0 0 1 1 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	0000	0000
31 MEAN	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 95.2

PERCENTAGE OF DATA INVALID - 4.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	POL	LUIANI		OLPHO	M 010	ATUE											110.000									
	STA	TION -	С	NO 3	1105	ну	DRO	55 5	SHERBOU	RNE/	WILTO	N ST.	TORO	NTO		MON	тн - 1	AUG	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3	0	0 0	0000	0 0 0	0	0 0 0	0 0 0	0000	0	0000	0 0 0	0000	0 0	0	0000	0000	0 0 0	0000	0000	0000	0000	0 0 0	0000	00000		0000
5 6 7 8	000000	000000	00000	000000	000000	000000	000000	000000	0000	000000		0000000	00000	000	000000	00000	00000	0-0000	0-0000	00000	000000	00000	00000	000000		000000
10 11 12 13 14 15 16 17 18 19 20	0 0001000011	0001000011	0 0001000010	00000000-0	0 0 0 0	10010	1001000011	1111000010	1 0 1 0 0 0 0 1	1 1 0 1 0 0 0 1 0	1 1 0 1 0 0 0 1 0		000000000000000000000000000000000000000	0	101000000000000000000000000000000000000	101000000	1 0 1 0 0 0 0	1 0 1 0 0 0 0	1001100000	1 1 0 0 0 1	0 0 1	0 - 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0	000000100		100000010
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0	0000100000	0000-00000	000010000	000010000	0000000	000000000	000000000000000000000000000000000000000	0 0 0 0 0 0	01000100010	0 1 0 0 0 1 0	00000	000000000000000000000000000000000000000	000000000000000000000000000000000000000		0-00000000	0100000000	0100000000	0100000000	0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0	000100000	00000	000100000		0000100000
31 MEAN	0	0	0	0	0	0	0	٥		0	0	0	0			0	0	0	0	0	0	0	0	0		. 1
ME AN	J			0			•	•	•			_	-		-	-		_								

PERCENTAGE OF DATA VALID - 97.6 PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	PO	LLUTA	NT -	SULP	IUR D	OXIDE								UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	ST	ATION		NO :	31105	5	HYDRO	55	SHERBO	URNE/	WILTON	ST.	TORON	TO		MON	тн -	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	0 0 0 0 1 0 0	0000000	0000000	00000000	0000000	0000000	0000000	000000		0000000	0000000	0000000	00000000	0	0010000	000000	0030000	0030000	0 0 0 0 0 0	0 0 0 0 0	0000000	0000000	0000001	0000001	0 0 0 0 0 1
10	1	1	1	1	1	1	2	1	î	1	1	;	Ĭ	1	1	1	1	ĵ	1	1	į	1	1	1	1
11 12 13 14 15 16 17 18 19	1 1 1 0 0 0 0 0 0	1 1 0 0 0 0	1 1 0 0 0 0 0 0 0	211110000	1 1 1 0 0 0 3 0	1 1 0 0 0 0 1 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00	1 1 1 1 0 0 0 0	0000	1 1 1 0 0 0 0 0	1 1 1 1 0 0 1 0 0	1 1 1 0 0 1 0 0	01010	1 1 0 1 0 0 0 0		1 1 0 0 0 0 0 0	1 1 1 0 0 0 0 0 0	1 1 0 0 0 0 0 0	1 1 0 0 0 0 0 0	1000001	1 1 0 0 0 0 0 0	1 1 0 0 0 0 1 0	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29	0000	00000	-	00000	000000000000000000000000000000000000000	000000	0000	000000000000000000000000000000000000000	00000	0000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000-0:000	0000		000000000000000000000000000000000000000					0000	0000		00000		0 0 0
MEAN	0	٥	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 91.8 PERCENTAGE OF DATA INVALID - 7.6

PERCENTAGE OF DATA UNAVAILABLE - 0.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OF PARTS/MILLION

	STA	TION	- (	NO	3110	5	HYDRO	SS	SHERBO	URNE/	WILTON	ST.	TORON	TO		MON	TH :	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0	0	0 0 1 0 0 1 1 2	0 0 0 0 0 1 1 2	0 0 0 0 1 0 0 1 3	0 0 0 0 1 0 0 1 3	1 2 0 1 2 0 2 5	1 2 0 1 2 0 2 2	2 1 0 2	0 0 0 1 1 1 1 1	0 0 0 0 1 2	0 0 0 0 0 0 0 0 1 1	000000000000000000000000000000000000000	0 0 0 0 0 0 1 2 1	0001023220	0 1 0 1 3 2 2 1	11000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 1 2 0	0 1 0 0 1 1 1 2 0	001001120	000000120	0 1 0 0 0 0 1 2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 1 1 2
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0	0000100000	0000-00000	00000	0 0 0 0 0 0 0	0	0 0 0 0 0 0	1 0 0 1 0 1 0 0	0 1 1 0 0	1 0 0 1 0 0 0		1 1 0 0 0 0 0 0 0	10000	0 0 0 0 0 0	0 0 0 1 0 0 0	0 0 0 0 1 1 0 0 0	0100000000	0000000	000000000000000000000000000000000000000	0001000000	000000000	000000000	0000000000	000000000	0000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 1 0	0000000000	1000001200	000000100	00000000000	0 0 0 1 0 0	000000000	200000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000.0000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0010000000	000000000	00000000	000000000000000000000000000000000000000	000000-000	000001000	000001000	010000-000	00000-000	000001001	0000000004	0 0 0 0 0 1 1 0 4	0 0 0 0 1
31 MEAN	2	1	0	1	0	1		1	,	1	1	0	1	1	0	0	0	0	2	2	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 95.2 PERCENTAGE OF DATA INVALID - 3.2

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES SRANCH

	POL	LUTANT	. 5	ULPH	UR DIO	XIDE							U	NITS	- 0.0	DI PAR	TS/MI	LLIC	N						
	STA	TION -	С	NO	31105	н	YDRO	SS SH	ERBOU	RNE/W	ILTON	ST.	ORONI	0		MONT	H - N	ov	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.5	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0001021111	0 0 6 0 0 1 2 1 1 1	0 1 0 0 0 1 2 1 1 1	0 1	0 0 0 0 0 2 1 1 1 1	0 1 1 0 0 2 3 1 1 1	0 1 0 0 2 5 1	0 0 1 0 1 3 4 1 1 1	0 0 1 8 4 1 1 1	0 0 1 1 0 3 10 1 1 1	0 0 9 4 0 2 3 1 1	0 0 1 1 0 2 3 1 2 .	0 0 1 1 0 2 2 1 2 0	0 0 2 1 0 3 2 1 1 0	0 0 2 1 0 2 2 1 1 0	0 0 1 1 0 3 2 1 1 0	0020082110	0 0 1 0 1 6 1 1 0	0 0 2 0 1 3 1 1 0	0 1 2 0 1 7 2 1 1 0	0 0 1 0 1 2 1 1 0	0 0 1 1 1 1 0	0 1 1 0 2 1 1 1 0	0 1 1 0 3 1 0 1 1 0	0 0 2 1 1 3 2 1 1
11 12 13 14 15 16 17 18 19	0150002012	0 1 2	0 0 1 0 0 3 0 1 1	0 0 1 0 0 0 1	0000103001	0 0 0 1 0 3 1 0 1	0 0 0 0 1 1 1	0 0 1 0 1 1 1 1 3	0 0 1 0 1 1 0 1 1 2	0 1 0 1 0 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010000021	0010000031	0 0 0 0 0 0 1 1	00000	00-00001-1	02 40000122	0 2 4 0 0 1 2 1	0 2 1 0 1 1 1 1 1	0 1 0 0 1 1 1 1	0 1 0 0 1 1 1	010001011	000000000	0 1 : 0 0 0 1 1 1 1 1
21 22 23 24 25 26 27 28 29	2011001.1111	201101211	2 0 1 0 1 1 2 1 2 1	3 0 3 0 0 1 2 1 2 1	30200211	3 0 2 0 1 5 1 1 1 2	2 0 3 1 0 5 1 1	2 1 2 1 1 3 1 1 1 1 1	2 1 1 2 1 1 2 2 2	2 1 2 1 1 2 1 1 2 1	3 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 3 1 1 1 1 2 2	1 2 2 1 1 1 1 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 0 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 2 1 1 1 1 1 1 1 1	1 0 2 1 1 1 1 1 1 1 1	0	0 2 1 0 1 4 1 1 1 1 1	0 1 1 0 1 1 1 1 1 1 1	0 1 1 0 1 2 1 1 2 1	0 1 2 1 2 2 1	0 1 1 0 ! 2 1 2 2 1	1 1 2 1 1 1 1 1 1
MEAN	1	t	1	ï	1	1	1	1	*	1	2	1	1	t	1	•	1	1	3	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 98.6 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE . 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR PROXIDE

UNITS - O DI PARTOMILION

	STA	TION	. с	NO .	31105	,	HYDRO	SS S	ERBO	URNE/	#ILTO	N 51.	TORUN	10		NON	1H ·	DLC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1.6	17	18	19	20	21	22	23	24 W	EAN
1	1	1	1		2		j	2	3	2	1		1	1	1	7	3	2	1	1	1	1	1	•	1
2	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		1	1	1	1		1		
3	1	1	1	1	1	1	3	3	3	4	2	1	1	1	1	1	1	1	1	1	1		,	2	- 1
4	2	1	1	1	1	1		2	2	2	3	2	1	2	1	1	2	- 1	- 2	3	3	3	3	5	2
5	1	2	1	1	2	1	2	3	2	2	2	1	2	100	1	100	- 1	- 1		٥	0	1	1	- 7	ī
6	-	3	3	2	3	2	3	2	2	1				3		- 1	- 1	- 1		ĭ	1	- 6	1	•	1
7	1	1	•	2		- 1	0	0	0	2	2	1	1		1	i	- 1	- 6	ò	ò	ò	ó	o	0	1
8	- 1	1		- 1		1	- 1	1	- 1	1	1	i	î	2		ò	ò	ò	ŏ	ŏ	-		0	0	1
10	ò	ò	ò	ò	ò	ò	ö	ò	ò	- 4	ó	•	ò	ō	0	ō			ō	ō	0	0	0	0	0
10	U			•		٠	•	•		•			-	-	-						1,000				
11	0	0	0	0	0	0	0	0	2	1	0	2	0	0	0	2	2	2	2	2		0.0	-	2	1
12	š	3	3	2	2	3	3	5	3	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	3
13	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3
14	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	•	2	1	1	1		2	1
15	2	2	3	1	2	2	2	2	2	2	3	5	7	5	3	4	3	3	• • • •	3	3	3	3	3	3
16	3	2	2	2	2	2	3	3	3	3	3	3	3	3	••••	0	1	1	1	o	0	0	ő	Ÿ	- 1
17	0	0	0	0	0	0	0	1	1	1	2	1	3	1	0	0	3	1	0	0					i
18	0	0	2	4	3	1	1	0	٥	0	0	0	0	٥	0	0	0	0	•	0	0		1	1	ó
19	0	0	0	0	0	0	٥	0	0	0	۰	0		1	0	ő	ŏ	1		- ;	;	i	1	i	1
20	1	1	0	0	0	0	0	0	1	,	1	3.		. I	U				,					·	
21	1	1	1	1	1	- 1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1 2
22	1	2	2	2	2	3	3	3	3	3	5	5	-	••••	2	٥	• • • •	••••	••••	0	0	0	0	ò	5
23	2	3	4	5	3	3	3	2	2	3	3	3	2	2 0 3	2	2	3	1	••••	0	0	000	ő	ŏ	á
24	0	1	1	1	0	0	0	0	0	0	0	0	٥	0	3	٥	0	C	0	0	0	ő	ő	ŏ	ĭ
25	0	٥	٥	0	0	٥	0	0	1	2	10	2	2	2	o 2	2	4	3	Ÿ	2	2	ĭ	2	2	2
26	1	1	0	1	2	2	1	1	1	3	3	2	1	1	- 1		- 7		- 1	•	7	1	- 1	2	2
27	2	2	2	2	3	3	3	3		3	3	4	7	À	5	-	5	ė	4	À	À	4	4	5	4
28	3	2	2	- 2	4	4	3	3	3	2	2	2	2	- 7	- 1		- 1	ĭ	,	i	1	1	1	•	2
21 22 23 24 25 26 27 28 29 30	7	5	5	- 1	7	7	1	-	1	- 7	- 1	ī	î	,	í	1	1	1	i	1	t	1	1	1	1
30		-1	1			150																			
31	1	1	1	1		1	1	1	1	1	1	1	1	0	C	0	0	1	1	1	1	1	1		•
MEAN	1	1	ĩ	1	1	1	1	2	2	2	2	2	2	1	1	1	1	Ť	,	1	1	1	1	1	1.4

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 1.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION -	C NO 31105 HYDRO SS	SHERBOURNE/WILTON ST. TORON	0	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.9	3	9
FEB	29	1.8	6	14
MAR	30	1.2	3	8
APR	26	1.5	4	6
MAY	31	0.7	2	6
JUN	15	0.9	1	3
JUL	29	0.2	a	11
AUG	31	0.1	1	2
SEP	27	0.3	1	3
oct	29	0.4	2	5
NOV	30	1.0	3	10
DEC	31	1.4	4	10
YEAR	339	0.9	6	14

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION

	-																							
TATION -	C	NO	311	05		HYD	ORO	\$5	SHER	BOU	RNE	/WIL	TON	ST	TOR	JN.T	0							
MONTH	00	то	05	06	TO	10	11	то	15	16	то	20	21	τo	25	26	то	39	40	10	49	50	SCVER	TOTAL
JAN			725			8			0			0			٥			0			٥		٥	733
FEB			643			33			4			0			٥			0			0		0	680
MAR			708			10			0			0			0			0		(4	9		0	718
APR			634			1			0			0			o			0			0		0	635
MAY			726			2			0			0			0			0			0		0	728
JUN			400			o			0			0			0			0			0		0	406
JUL			705			2			1			0			0			0			0		0	708
AUG			726			0			0			0			٥			0			0		0	726
SEP			661			0			0			٥			0			U			U		υ	601
oct			708			0			0			0			0			0			0		0	708
NOV			703			7			0			0			0			o			О		0	710
DEC			712			6			٥			o			0			o			0		0	718
YEAR		8	051			69			5			0			0			0			٥		0	8125
1640		~				-			-			1997												

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES				TRATIONS					ARITH
	OF DATA	MIN	10	30	FREQUENCY 50	70	BUTION.	PERCENT 95	98	99	MAX	MEAN
	02 5		0.0	0 0	0.1	0.7	1.8	2.6	4.0	4.9	14	0.9

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES ERANCH

	POL	LUTANT		SULPH	UR DIO	XIDE							ļ	UNITS	- 0.	C1 PA	RTS/M	ILLIO	N						
	STA	TION -	С	NO	33003	,	LAWRE	NCE/KE	NNEDY	SCAR	BOROL	JGH				NO:4	тн - ,	NAL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	321100100	3 2 1 1 0 0 1 0 0	2 2 1 1 0 0 1 0 0	221100000	2 2 1 1 1 0 0 1 0 0	2 2 0 1 0 0 1 0 0	2 2 0 1 0 0 1 0 0	1 1 0 1 0 0	2 2 0 1 0 1 1 0	2 2 0 2 0 1 0 0 0	2 2 0 0 0 0 0 0	221100000	1 1 0 0 0 0 0	2 1 1 0 1 0 1 0	0000	1000010	2 4 1 0 1 0 1 0	3 1 0 1 0 1 0	2 2 2 1 0 1 0 1 0	0 2 2 1 1 0 1 1 0	1 2 2 1 1 0 1 0 0	1 0 0 0 0	1 0 0 0 0	2 2 1 1 0 1 0 0 0 0	2 2 1 0 0 0 0 0 0
10 11 12 13 14 15 16 17 18	1000000100	1 1000000000	1 1000000000	1 0 0 0 0 1 0 0	0021000100	0021000100	0021000100	0001100100	3 0002100100	000000000000	0001100101	0001000100	0001000100	00001000101	000000100	1 000000000	1 0000000000		0 0000100000	0010000000	0 0010001000	0 0010001000	1 0 0 1 0 0 0	1 0 0 0 0 0 0 1 0 0 0	0 0 0 1 0 0 0 0 0
21 22 23 24 25 26 27 29 30	0 1 0 0 2 1 1 1 4 4	0 1 0 0 2 1 1 1 4 4	0 1 0 0 3 1 1 0 4 3	0 1 0 0 3 1 1 1 4 3	0 3 0 0 3 1 0 1 4 4	0 2 0 0 3 1 0 0 4 4	02004	0 1 0 0 4 1 0 1 4 4	0 1 0 0 4 1 0 0 4 3	0100400043	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 4 3	0 2 0 0 0 0 0 4 3	200200033	0 1 0	0 1 0 0 0 1 3 3 4	0 1 0 2 2 0 1 3 4	0 1 2 0 1 4 3 3	0 1 0 1 2 0 1 4 4 3	0 2 0 1 2 0 0 1 4 3	1 2 0 1 1 1 0 4 4 3	1 1 0 1 1 0 4 3 3 3	2002100433	4 0 0 0 2 1 1 0 0 4 4 2 2	0 1 2 1 0 2 4 3
31	2	2	2	2	2	2	2	2	2	2	2	2	3	2			2	2	2	2	2	2	2	2	2 0.9
MEAN		1	1	1	4	1	1	1	1	4	1	1	1	1	1	. 1	1	1	1	1	,	1	1	1	0.9

PERCENTAGE OF DATA VALID - 98.5 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. " \*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	. с	NO	33003		LAWREN	CE/KE	NNED	Y SC	RBOR	DUGH				WO.	TH -	FEB	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 1	MEAN	
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2 2	
9	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3	****	3		2	
3	A	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2 2	2	2	2	2	3	2	
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6	-	3	5	2	2	2	2	3	2	2					5	2			2	2	2	2	1	1	2	
ž		- 7	7	- 7	- 7	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	
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4				- 1			•	2		2	- 1		2	1	1	2	2	2	2	2	2	1	1	1	2	
			- 4	-	2	2	2	•	2	2	2	2	- 5	2	1	1	1	1	1	1	2		1	1	2 2	
10		•		-		•	1		2	2	2	2	5	2		2	2	3	2	2	2	2	3	2	2	
10			3				•		-	•	-	-	-	-	-		7.50	1100	_							
4.4		2	•	-	2	2	3	4	3	4	4	4	2	4	3	2	2	4	2	2	2	2	2	2	2	
11	2	2			•	- 5	,	-	3	2	2	2	5	2		2	1	1	1	1	1	1	1	1	2	
12		1	- !	- 4		- 1		5	5	5	2	2	3	- 5			1	3	8	7	5	3	3	3	3	
13	1	1	1	1	3	3	3	5	3	2	2	7	ĭ	•		1	1	ĩ	ĩ	1	1	1	1	2	2	
14	3	2	2	- 2	3	2	3	•	3		ō	ò	'n				1	- 1		0	0	0		1	1	
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18	1	1	1	2	1	3	3	3	2		2		,		3		5	5	2	4	4	5	4	4	3	
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20	3	3	3	3	3	3	3	3	3	3	3	3	,		,	3		-	7	-	•	•	_	_		
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29	0	0	0	0	0	0	0	0	0	0	0	0			. 0	U		0	9		9		-			
MEAN	2	2	1	1	2	2	2	2	2	2	2	1	2	2	2	1	1	2	2	2	2	2	2	2	1.6	

PERCENTAGE OF DATA VALID - 96.4 PERCENTAGE OF DATA INVALID - 3.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALLO DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	· s	ULPHL	R DIO	XIDE								UNITS	- 0.	O1 PA	RTS/M	11110	N							
	STAT	ION -	c	NO 3	3003	į,	AWREN	CE/KE	NNEDY	SCAR	BORO	UGH				MON	тн -	MAR	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8	000011000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100011010	0100010010	0100010010	0 1 1 0 0 0 0	0 1 1 1 0 1 1 0 0 0 0	0 1 1 0 0 0 0	0 0 0 1 0 0 2	0 0 0 1 0 0 1	0 0 0 1 0 0 0 1	0001010001	0 0 1 0 0 1	00001	000-02-000		000000000000000000000000000000000000000	0001111000	0002000	2112000	2111000	0 0 2 1 1 0 0 0	0 0 2 1 1 0 0 0	0000-10000	0000	
11 12 13 14 15 16 17 18 19	000000000	0 0 0 0 0 0 1 2	0000000012	000000001	0000010020	000000001	0 0 0 0 0 0 1 1	0 0 0 0 0 1 0 1	000001002	0 0 0 0 1 0 1 1	0 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 1	000001	000011	0 0 0 0 1 0 0 0 1 0	0000000000	222000000	000000011	000000001	0000000000	000000000	0030000000	000000000	000000000000000000000000000000000000000	
21 22 23 24 25 26 27 28 29	1221210011	1 2 2 1 0 0 1 1	0 2 2 1 2 1 0 0 1 1	1 2 1 2 1 0 0 1 1	221211011	1 2 1 1 2 1 1 0 1 1	1 2 2 0 2 1 1 0 1 0	1 2 1 0 2 1 1 1 0	0 1 1 0 2 1 1 1 0	1 1 0 2 1 1 1 1 1	1 1 1 1 1 1 1 1	2002211	1 1 0 2 1 1 1 1 1 1 1	1 1 0 2 2 1 1 1 1 1	1 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1	2 2 2 1 1 1 1	2 2 5 1 1 1 1	2 2 2 1 1 1 1 1 1	22122111111	2 2 1 2 2 1 1 1 1 1 1 1	22011	1 1 2 2 0 0 1 1 1	2 1 2 1 0 0 1 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O OI PARTS/MILLION

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	s	OITAT	N -	C N	0 3300	3	LAWR	ENCE/	KENNEDY	SC.	ARBOR	OUGH				MO	NTH -	APR	80							
HOUR	1	2	3	ľ	4 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
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4	2	2	- 1		2 2	. 2	2	2	1	1	1	1	1	1		- 1	1	,	1	19	2	- 1	1	2		
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12 13 14	1	0	1		1 0	0	0	1	1	1		1	1	1	1	1	1	1	1	1	9	1	1	1		1
14	1	1	1		1 1	0	1	1	1	1	1	٥	1		0	0	0	0	0	0	0	0	0	1		1
15	1	1	1		1 1	1	1	1	1	- 1	1	ĩ				3	2	2	2	2	2	1	1	2		1
16	2	2	2		1 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	- 7	1		1		1
15 16 17	1	1	1		1 1	1	2	2	- 4	4	3	3	3	2			2	2	2	2	2	2	2	2		2
18	2	2	2		1 1		ī	1	2	2	2	2	2	2	2	3	3	2	2	2	2	2	2	1		2
19	2		-		2 1			2	2	2	2	2	2				- ī	2	2	2	3	2	2	2		2
20	2	2	2		2 2		1	1	1	1	2	2	2			2	2	2	2	3	3	2	2	2		2
21	2	2	2		1 2	2	2	2	2	2	2	2	2													
22		****						:			:						4	2	2	2			*	76		
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PERCENTAGE OF DATA VALID - 94.7

PERCENTAGE OF DATA INVALID - 5.3

PERCENTAGE OF DATA UNAVAILABLE . O.O.

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE

POLLUTANT - SULPHUR DIOXIDE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION

STATION - C NO 33003 LAWRENCE/KENNEDY SCARBOROUGH HOUR 24 MEAN 00. 12 13 14 15 16 17 18 19 20 O INVALID o 0 .....

PERCENTAGE OF DATA VALID - 85.2

PERCENTAGE OF DATA INVALID - 14.5

0-0000-000

O

PERCENTAGE OF DATA UNAVAILABLE - 0.3

0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

0000-000

UNITS - 0.01 PARTS/MILLION

	POI	LLUTAN	T - :	SULPH	UR DI	DXIDE								014113	•										
	ST	ATION	. с	NO	33003		LAWREN	ICE/KE	ENNEDY	SCA	RBORO	UGH				MONT	H - J	UN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME.	AN ,
1 2	0	0	0	0	0	0	0	0	0	0	0	1	1 2 1	2	1	2	2	1	1	1	1	1	1	1	1
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7 8	į	2	2	1 2	2	2	2	2 2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	į	1
10	1	i	ò	ò	i 0	1	,	1	1	1	1	1		٠٠٠٠	1	1	1	1	1	1	1	•		1	1
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15 16 17	1	1	1	1 1	1	1 1 1	1	1	1 1	1	!		1 0	1 0	1 0	0	000	0	0	0	0	1 0 0	0 0	0	1 1 0
18 19 20	000	000	0	000	0	0	000	0	0	000	0	0	0	0	0	0	0	0	c o	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0000	0	0	0	0	000	0	0	000	000	000	0 0 0	000	0
21 22 23 24 25 26 27 28 29	0	0	000	0	0 0 0	0000	0	0000	0	1 0 0	0	000		0	0	0	0 0	0	0		0	00000	0	0	0
26 27 28	2	2	2	!						·-··	1	4	3	3 1 1	3 1 1	3 1 1	1	1	1	1 1	1	1	1	1 1	1 1 2
30 MEAN	i	i	,	i	1	i 1	î	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	о. в

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 3.3

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	· s	ULPHU	R DIO	XIDE								UNITS	. 0.0	DI PAR	TS/MI	LLION							
	STAT	ION -	c	NO 3	3003	L	AWREN	CE/KE	NEDY	SCAR	BORO	UGH				MONT	н - Ј	UL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	. 24 WE	AN
1 2 3 4 5 6 7 8	1 1 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	1110000000	1 1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	1 1 0 0 0 1 0 0 0	1 1 0 1 0 2 0 0 0	3 0 1 0 1 0 0 0	0 1 0 0 1	0000	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0 0 1	000000	1 1 0 0 0 0 0 0 0 1	1 1 0 0 0 1 0 0 1	1 1 0 0 0 0 1	1 1 0 0 0 0 0 0	1 1 0 2 0 0 1 0 0 2	1 0 0 0 0 0 0 1	1 0000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	10000101111	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000000111	0 0 0 0 0 0 1 1 1 1	00000001111	0 0 0 0 0 0 1 1 1	1 0 0 1 0 0 1 1 1 1	1000100111111	1 0 0 1 0 0 1 1 1 1	1 0 0 1 0 1 1 1 1 1	1 0 1 0 1 1 1	100010001121	1 0 0 1 1 0 1 1	0 1 0 1 1	0 0 0 0 0 0 1 1 1 1	0 0 1 0 1 1 1 1 1	0 0 0 1 1 1 1 1	0 0 1 0 1 1 1 1 1	0 0 0 1 1 1 1 1 1	0 0 1 0 1 1 1 1 1	0 0 0 3 0 1 1 1 1 1	0 5 0 1 1 1 1 1	0 0 2 0 1 1 1 1 1 1	0 0 1 0 1 1 1 1 1 1 1	0 0 1 0 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29	1 1 0 1 1 1 0 0	1 1 0 1 1 1 0 0	1 1 0 0 1 1 1 0 0	1 1 0 0	1 1 0 0 1 1 1 0 0	1 1 0 1 1 1 0 0	1 1 1 1 0 0	1 1 0 1 1 1 0 0	1 1 0 1 2 1 1 1 0 0	1 1 0 1 2 1 1 1 0 0	1 1 0 1 2 1 1 0 0	1 1 0 1 2 1 1 2 1 0	1 1 0 1 2 1 0	1 0 2 2 1 1 1 0 0	1 1 0 2 2 1 2 . 0 0	1 1 2 2 1 2	1 1 2 2 2 1 1 0 0 0	2 2 1 1 0 0 0	1 2 2 2 1 1 0 0 0	1 1 2 1 1 0 0 0	1 2 1 1 1 0 0	1 0 1 2 1 1	1 0 1 2 1 1 1 1 0 0	1 0 1 1 1 1 0 0 0 0	1 1 0 0 0
31 MEAN	0	0	0	0	0	0	0	0 1	0	1	1	0	0		0	0	1	0	0	0	0	1	0	o o	0 0.6

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION		NO.	3300	3	LAWRER	NCE/KI	ENNEDY	SCA	RBCRO	ŲGН				MON	TH -	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
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20	1	0	0	0	0	O	0	0	0		U	,	1	, i		3	2.	4,	U	u	u	177		1=	
21	0	0			0	0	0	0	0	000	1	1	1	1		1	1	1	1	1	0	0	0	o	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	1	0	C	0	0	0	0	0	0
22 23 24 25 26 27 28 29 30	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1.	1	1	1	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	.0	0	0	1	1	1	0	0	0	0	0	0	1	٥	0	٥	٥	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	000	0	0	0	0		0	0	0	0	0	0	0	0	0	o
27	0000	0	0	0	0	000	0	0	0	0	0	0	٥	0	0	0	0	0	0		0	0	0	0	٥
28	0		0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	O	0	0	0	o
29	0	0	0	0	0	٥	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
30	D	0	0	0	C	С	0	0	0	0	Q	ú	0	ù	Ú	0	O	0	0	0	n	0	0	0	O
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	0	٥	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 97.0

PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLICN POLLUTANT - SULPHUR DIOXICE MONTH - SEP 80 STATION - C NO 33003 LAWRENCE/KENNEDY SCARBOROUGH 21 22 23 24 MEAN HOUR 7 9 10 1.1 12 13 15 18 17 18 19 20 14 0 ... 00. 0000000--0 0000000110 000000----000000 00000000000 00000000000 0000001110 002001 0001011 1 0 ò ò ò 0 0 0 1 11 12 13 14 15 16 17 18 19 20 a ...0 0 0 0 0 0 0 1 01000-0 00-000-0010001 0000011 00-00 001001 00-000-1--0010001111 000000 000 0 1 2 0 1 2 2 21 22 23 24 25 26 27 28 29 30 0 1 1 0-200004 01200003 10010001 0 .00000 0 1 0.6 o 0 1 1 1 1 1 1 0 ٥ 0 0 1 MEAN 0

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS + O OI PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - OCT LAWRENCE/KENNEDY SCARBOROUGH STATION . C NO 33003 24 MEAN HOUR 1 1 0 0 0 ...1 ...1 1 2 3 4 5 6 7 8 9 10 INVALID INVALID INVALID INVALID INVALID INVALID INVALID DATA DATA DATA DATA DATA DATA 0000-000000 000-000000 000-000000 12 13 14 15 16 17 18 19 20 0000-00000 0000-00000 0000-00000 000-000000 0000-00000 0000-000000 22 23 24 25 26 27 28 29 30 000000.00+ 000000-000 00-0000000 00-0000000 000000.000 00-0000000 00-0000000 00-0000000 00-0000000 00-0000000 0 - 0 -1000.000 

PERCENTAGE OF DATA VALID - 72.7

PERCENTAGE OF DATA INVALID - 26.5

Ó 

PERCENTAGE OF DATA UNAVAILABLE -

  0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

J 

#### ENVIRONMENT - AIR RESOURCES

	PO	LLUTA	NT -	SULPI	4UR DI	OXIDE								UNITS	- 0.	01 PA	RTS/M	11110	N						
	ST	ATION	- (	. NO	33003	1	LAWREN	HCE/K	ENNED	Y SCA	RBORO	UGH				MON	TH - N	VOV	80						
HOUR	1	2	3	4	5	6	7	8	. 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 0 0 1 0 0 2 0 0	00010010	000000000000000000000000000000000000000	00.000100	0000	000000000	0 0 0 0 0 1 0 0	000-00-00	00200100	000101100	0 0 1 1 0 1 1 0 2	. 0 1 1 0 3 1 0 1	001003100	00.000000000000000000000000000000000000	00000-00	00.000	0 0 0 0 0 0 0 0 0	00-000000	001006000	00000000	0.00000.0	0 2 2 0 0 0 0 . 0	012002000	0 1 0 0 1 0 0 0	0 0 1 0 0
10 11 12 13 14 15 16 17 18 19 20	0 . 2 2 2 0 1 4 0 0 5	32013004	0	0	0	0	0	0 0 2 3 3 1 2 1 0 5	0 00323-2-04	0 0022212104	0 0000000000000000000000000000000000000	0 0032211106	0 0021111115	0 0 3 1 1 1 1 1 1 5	0 00332111	0 2 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 4 2 1 1 1 0 4 5	0 0 5 4 1 1 1 0 4 5	0 - 4 4 1 1 2 0 0 5 4	0 0240221054	0 . 2 3 0 2 3 0 0 6 3	300130043	0 - 23 0 0 4 0 0 4 4	0 2 2 0 1 4 0 1 5 5	3 1 1 2 1 1 2 5
21 22 23 24 25 26 27 28 29	5 0 3 	3 1 0 2 1	4  1 1  2 2 2 0 3	22003	3 1 0 3	2 0 4	5 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	500000000000000000000000000000000000000	5 0 0 4 0 0	3	3 5 0 0 0	3070	3 0 1 0 0 1 0 0 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 2 0 0 1 0 3 0	000000000000000000000000000000000000000	0010020100	0000140200	000000000000000000000000000000000000000	0 2 0 1	0 1 0 1 7 0 8 0	0 0 3 7 0 15	0 1 4 4 0 7 0 4	0 3 5 2 0 2 0 5	3 0 2 1
MEAN	1	1	1	1	1	1	1	1	1	1	1	1		-1	1	1	1	1	1	1	2	2	2	1	1.1

PERCENTAGE OF DATA VALID - 91.0

PERCENTAGE OF DATA INVALID - 5.6

PERCENTAGE OF DATA UNAVAILABLE .

- \*- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - C.C. PARTS/MILLION

	S	TATIO	V (*)	C NO	3300	3	LAWRE	INCE/	KENNED	Y SCA	RBORG	UCH				VO	HTF	DEC	80						
HOUR DAY	1	2	. 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3	3 1 0	3 0 0	3 0 0	3 0 0	3 0 0	0	0	0	3	3 1 0	1		!	1	!	0	0	!	0	0			0	0	2
5	0	0	0	0	0	0	0				0	0	0	0	٠	0	0	0	0	0	0	i	0	0	
7	0	0	0	0	0 2	0		0	0	0	0	0	0	0	0	0	0	. 0	000	000	0	3	4	3	
10	0 0 0	0	0	0	0			3	0	0	0	0	0	0		0		ŏ	1	1		1	ō	0	
11 12	0	0	0	0	0	0	4	4 5	5	4	1	0	0	0	0	0	0	0	0	0				1	1 2
13 14 15	1	0		0	0	0	0 3		00	0	0	0 0 0	0	0	0	0	0	0	0	0	0	O	4	2	0
16	0	0	o o	0	0	0	0	0	0 0	0	0	0	0		0	0	0	10	0 2	0		0	2	0	o 2
18 19 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	000	0	0	0	0
21 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0
23 24	8	11	16	18 5	18	13	12	11	12	11	10	7	14	2	••••	14	5	3	;	30	2	3	3	4	9 2
25 26 27	0 3 5	0 3 5	2	1 6	0 2 6	2	0 4 7	5	1 8 2	6	1 7 3	12	12	8 9 1	18	1 5 2	7 2	6	1 6	6 2	3 6 2	` 2 5 2	3 5 2	3 5 2	2 6 3
25 26 27 28 29 30	14 0	13 0	10	2 8 0	2 8 0	1 4	3	4 3 0	3	5 2	4 2	8 2	18	10	14 G	12	12 C	9	9	12	12	11	11	12	8
31	••••	••••	••••	••••	••••	••••	****		••••	••••	0	****	****		0	0	0	0	0	0	0	0	0		•••••
MEAN	2	2	2	2	2	1	2	2	2	2	1	1	2	. 2	3	2	2	1	1	1	. 1	1	1	2	1.7

PERCENTAGE OF DATA VALID - 88.7 PERCENTAGE OF DATA INVALID - 9.7

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN CHE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

MONTHLY SUMMARY	OF HOURLY AND 2-HOUR	LY DATA FOR 1980		
POLLUTANT - SUL	PHUR DIOXIDE		UNITS - 0.01 PARTS/MILL	.ION
STAJION - C N	0 33003 LAWRENCE/	KENNEDY SCARBOROUGH		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	DAIGES MUMIXAM
MAL	31	0.9	4	5
FEB	29	1.6	3	e
MAR	31	0.6	2	5
APR	28	t., 1	2	5
MAY	26	0.4	,	3
JUN	29	0.8	2	4
JUL	31	0.€	•	5
AUG	31	0.2	1	1
SEP	30	0.6	2	4
OCT	22	0.1	1	2
NOV	27	j., i	5	15
DEC	27	1.7	9	18
YEAR	342	0.8	9	18

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXICE

UNITS - 0.01 PARTS/MILLION

STATION - C	NO 33003	LAWREN	CE/KENNEDY	SCARBOROU	Gн				
MONTH O	O TO 05 0	6 TO 10 11	10 15 16	TO 20 21	10 25 26	TO 39 40	10 49 50	40VER	TOTAL
JAN	733	0	٥	0	o	0	0	0	733
FEB	669	2	٥	0	o	0	c	0	€71
MAR	730	0	٥	o	٥	0	0	0	730
APR	682	0	0	0	0	0 "	0	0	682
MAY	634	0	0	o	٥	0	٥	٥	634
JUN	695	0	o	0	0	0	c	0	695
JUL	730	٥	0	٥	0	0	0	o	730
AUG	722	o	o	0	0	0	0	٥	722
SEP	706	0	0	0	0	0	0	0	706
oct	541	0	0	0	0	0	0	0	541
NOV	642	12	1	0	0	0	0	0	655
DEC	603	30	22	5	0	0	٥	0	660
YEAR	8087	44	23	5	o	, 0	0	٥	8159

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT
OF DATA
VALID MIN 10 30 50 70 90 95 98 99 MAX MEAN

92.9 0 0.0 0.0 0.0 0.6 1.6 2.3 3.8 4.8 18 0.8

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	- 5	ULPH	UR DIO	XIDE							,	UNITS	- 0.0	DI PAR	RTS/MI	LLIO							
	STAT	TION -	c	NO .	33019	M	ET BE	RANCH	SCARE	OROUG	H BL	JFFS.	SCAR	BORO		MONT	гн	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	0 0 0 0 0 0 0 0 0	000000000	0000000000	00000000	000000000	000000000	000000000	000000000	0 0 0 0 0 0 0	000000000	00000000000		000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000
11 12 13 14 15 16 17 18 19	000000000	000000000	0000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000	0000000000	00000000	0000000000	0000000000	0000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000000
21 223 24 25 26 27 28 29	0000000000	0000000000	0000000000	0000000000	000000000	000000000	0000000000	000000000	0000100000	0000100000	0000100000	0000100000	0 0 0 2 1 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0	000000000000000000000000000000000000000	0000100000	0 0 0 0 0 0	0000000	0000000000	0000000000	00000000	0000000000	0000000000	0000100000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ن 0.0

PERCENTAGE OF DATA VALID - 99.5

PERCENTAGE OF DATA INVALID . 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. ..</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.C. PARTS/MILLION

														2108 102	-	e // () //	taliconie sero								
	STA	TION -	C	NO	33019	Me	T BRA	NCH	SCARE	SOROUGH	1 BL	UFFS,	SCAR	BORO		VON	тн - 1	FEB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1.6	17	18	19	20	21	22	23	24	MEAN
1 2	0	0	0	0	0	0	0	00	0	0	0	00	0	0	0	0	0	0	0	0 0	0	0	0	0	0
3 4 5		0	0	0	0	0	0	000	000	0	0	00	0	0	0	0	0	0	0	0	0	0	0	0	3 1
6 7 8	0 0 0	0	0	0 0	0	0 0	0	000	0	0	1	0 1 2	0 1 2	0	0 !	0 1 1	0	000	0	0	0	000	0	0	0
9 10	0	0	0	0	0	0	0	00	0	0	1	1 2	1 2	1	i	,	1	c I	0	0	0	0	0	0	1
11 12 13	0 0 3	0	0 0 2	0 0 0 2	0 0 1	0 0 0	0	0 0 0 1	0 0 1	0	2	1	0 2 3	6	1 5 1	3	3	3	0 0 2 0	0 2 0	0 1 0	0 0 0	0 4 0	0 0 0	0 0 2
15 16 17 18	0	0 0 0	0 0 1	0	0 0 0	0	0 0 2	0 0 1	1 0 0	1 0 1 1	1012	0 2 4	0	0 0 1 3	0	0	0	0 1 1	0 1 1	0	0 2 2	0 0 2 2	0 1 2	0 1 3	0 1 2
20	1	3	0	0	0	1	0	5 0	5	0	5	0	1	1	1	0	0	0	0	0	0	0	0	0	. 0
21 22 23 24 25 26 27 28 29	00000000	00000000	000000000	000000000	00000000	00000000	000000000	000000000	000000000	00000000	000000000	0 0 1 0 1	0 0 1 0 0 0 1 0	001000010	000000000	000000000	000000000	000000000	00000000	00000000	000001000	000001000	000001000	00000000	0 0 0 0 0 0 0
MEAN	0	0	0	0	0	0	0	0	0	0	1	1	i	1	1	ī	1	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. 5	ULP	OIG RUN	XICE							3	ZTINL	. 0.0	01 PA	RTS/MI	LLLIO	N						
	STA	TION -	С	NO	33019		MET	BRANCH	SCAR	BOROUGH	BLI	UFFS.	SCAR	BORO		MON	TH - A	AA.	80						
HOUR	3	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1.9	20	21	22	23	24 M	EAN
1 2 3 4 5 6	00000	00000	1 0 2 0 0 0	1 1 2 0 0 0	0 1 1 1 0 0 0 0	1 1 0 0 0	1 1 0 0 0	0	0 1 0 3 0	0 2 2 4 0 1 0	0244010	3 3 0 3 0 0	1 2 4 3 0 2 1	1 1 3 3 0 1	0 2 2 2 0 1 2	0 3 1 2 0 1 1	0 3 1 2 0 0	3 1 0 0 0	1 4 1 0 0 0	5-0000	0051000	0 5 1 0	0 0 3 1 0 0 0 0	0 0 0 0 0	0 - 2 2 0 0 0 0
9	0	0	0	000	000	000	0	0	0	0	0	2	0	2	0 1 0	1	1 0	0	0	1	0	1	0	0	0
11 12 13 14 15 16 17 18 19	0000000000	0 0 0 0 0 0 0 0 0 0	0000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	000000000	0000000	0000000000	0	100.000001	0 1 0 0 0 0 0	0 1 0 0 0 0 0	0 1 0 0 0 0 0 0 2	0 1 0 0 0 0 0 2	0 1 0 0 1 0 0 0 1 2	0 1 0 0 0 0 1 1	0 1 0 0 0 1 1	0 0 0 0 0 0 1	000000000	0000000000	0 0 0 0 0 0 0 1	0 0 0 0 0 0 1	0 0 0 0 0 0 0 1	0 0 0 0 0 0 1
21 22 23 24 25 26 27 28 29	1 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	0100000000	0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	000000000000000000000000000000000000000	00000	1 1 0 0 0 0 1 1 0 0 0	0000000	00000000	00000	000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0 0	0000030000	0000000000	0000010000	000000000	0000000000	000000000
31 MEAN	0	0	0	0	0	C 0	0		0	0	0	0	0	0	0	0	0	O	0	0	0	0	C	0	0.3
mEAR!			•	u	Ü	U	•			~		•			Ü		•	U	•	U	U		•	•	

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## UNITS - 0.01 PARTS/MILLION

				-																					
	STA	NO17	· c	NQ	33019	WE	BR	ANCH	SCARB	OROUG	4 BLL	FFS.	SCARB	ORO		MONT	н - 4	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	÷ô	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	0000000000	0 0 0 0 0 0	0000000000	0000000000	000000000	0 1 0 0 0 0 0 0 0 0 0	0100000000	010000000	0 + 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	000000000	0100000000	0100000000	0-00000000	0000000000	000001000	0000000000	0000000000	0000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 1 0 0	0000000110	0000000111	000000000000000000000000000000000000000	00000-00	0 0 0 0 0 1 1 0 0	0 0 0 0 0 1 1 1 0	0000000210	0000001210	000001210	0 0 0 0 1 1 0 0	00000011	0 0 0 0 1 1 1 1	0 0 0 0 0 1 1 1 1	000001111	0 0 0 0 1 2 1 1	0 0 0 1 0 0 1 2 1 1	0 0 1 1 0 1	0 0 0 1 1 0 1	1000001100	1 0 0 0 0 1 1 0 0	20000000000	100000000	000000000000000000000000000000000000000	0 0 0 0 1 1 0
21 22 23 24 25 26 27 28 29 30	0000000000	0100000000	0100000000	000000000000000000000000000000000000000	0000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	000000000		00000000	0 0 0 0 0 0 0 0	0000010000	0000010000	0000000000	0000000000	1000000000	1000000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	000000000
MEAN	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	٥	٥	0	0	٥	٥	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

HOUR DAY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN  1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		POLL	UTANT	· s	ULPH	UR DIO	XIDE							ŗ	INITS	. 0.0	1 PAR	TS/MI	LLION	N.						
DAY  1		STAT	10N -	¢	NO	33019	ME	T BR	ANCH	SCARB	OROUG	H BLL	IFFS.	SCARE	ORO	*	LONT	H - N	ΔY	80						
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	EAN
112	3 4 5 6 7 8	0000000	0000000	00000000	0000000	0000000	00000000	00000000	00000000	00000000	0000000	1 0 0 0 0 0 0	000000	0 0 0 0 0	1 0 0 0 0 0 0	0 0 0 0	1 1 0 0 0 0 0	00000	11000000	0 0 1 0 0 0 0 0	00100000	0000000	0000000	0000000	00000000	000000
21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 13 14 15 16 17 18	0000000	00000000	00000000	0000000	000000	00000000	00000000	00000000	00000000	0000000	0000000	00007000	00005000	00000000	3000-000	0000000	00000000	0000000	0000000	0000000	0000000	00000000	00000000	0000000	00001000
	22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	0000000	00000000	0000000	00000000	0000000	0000000	01000000	0 1 0 0 0 0 0	0 1 0 0 0 0 0 0	0100000	010000	01000000	02100000	0 2 2 0 0 0 0 0 0 0	0 1 2 0 0 0 0 0	0 0 1 0 0 0 0	00000000	0 0 0 0 0 0	01000000	0100000	0 1 0 0 1 0 0	0 1 0 0 0 1 0 0	00000000	01000000
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5500		-						-	-			-		0.00		-					-				- T

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID . 0.4 NOTES 1, \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- - \*- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE BO MET BRANCH SCARBOROUGH BLUFFS. SCARBORO MONTH - JUN STATION . C NO 33019 24 MEAN 000. 1 2 3 4 5 6 7 B 9 10 00-0000000 00-00-0000000 00-0000000 00-0000 12 13 14 15 16 17 18 19 20 CO 22 23 24 25 26 27 28 29 00000+ 000--ò 0.2 O MEAN

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATI. INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. ".... INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MET BRANCH SCARBOROUGH BLUFFS. SCARBORO STATION . C NO 33019 24 MEAN HOUR 00-1 2 3 4 5 6 7 8 9 10 ò 12 13 14 15 16 17 18 19 20 1 0 0 1 -00000000 00-22 23 24 25 26 27 28 29 30 00. 0000-0000-0-000-0-C o 0.5 o MEAN

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION -	c	NO	33019		MET BR	ANCH	SCAR	BOROUG	H 8L	uFFS.	SCAR	BORO		HON	тн - д	LUG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1	1	11	1	1	1	1	1	1	1	1	1	í	٥	1		1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	- 1	1	1	1	1
3	1	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	,	1	1	1	1	1	1	1	1
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0
5	0		0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	1	1		1	1	1	1	0
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	0	0	0	1	1	1	1	1	3	1	1	1			1	1	1	1	1	1	1	1	1	1	1
	1	1		1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	1
	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	2	2	2	2	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1.	1
1.1	1	3	1		1	1	1	0	0	c	٥	٥	٥	2	3	3	2	3	٥	0	٥	2	S	C	2
12	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0
13	0	1	1	1	1	1	0	٥	0	0 .		***	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
16	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	٥	1
17	1	1	1		1	1	1	- 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18 19 20	1		1		1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	- 1	1	1	1	1
19	1	1	1	,	1	1	1	1	1	0	0	٥	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	,	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1
21 22 23 24 25 26 27 28 29 30	1	1	1	1	1	1	0	0	0	0	0	1	1	1	3.	1	1	1	1	1	1	,	1	1	1
22	1	1	1	1	,	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	- 1	1	1	1	1
23	1	1	1	1	1	1	0	0	1	1	0	0	1	. 1	1	1	1	1	1	1	1	1	1	1	1
24	0	0	0	0	0	0	0	0	0	0	0	٥	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	-1	,	1	1	1	1		1	1	- 1	8.	1	1	2	2	2	2	2	2	2	2	2	1
26	1	,	1	1	1	1	1	1.		0	0	0	0	0	0	Ω	0	0	1	1	1	1	1	1	1
27	0	0	0	0	0	0	0	0	0	0	0	0			1	O		0	0	0	0	0	0	0	0
28	0	٥	0	0	٥	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	٥	0	1	1	0	0		0	0	٥	0	0	0	٥	0	0	0	0	0	0	0	0
30	0	0	0	0	٥	٥	0	1	1	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	v	u
31	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	1.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE . D.D.

NOTES 1, \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- \$	ULPH	UR 010	XIDE							,	UNITS	• 0.0	1 PAF	RTS/MI	LLIO	N						
	STA	TION -	c	NO	33019	ME	T BRANG	CH S	SCARB	OROUGH	BLL	IFFS.	SCAR	BORO		NON'	H - S	EP	80						
HOUR	1	2	3	4	5	6	7	3	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	00000000	000100000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 (		0000-000-	0 0 0 0 0 0 0 0 1	000000000	00000000	00000001	000000000000000000000000000000000000000	000000111	0 0 0 0 0 0 0 1 1 1	000000000	0000000100	0000000000	0000000000	0000000000	000000000	0000000000	0 0 0 0 0 0 1	000000000
11 12 13 14 15 16 17 18 19	000001000	000000000	0000010000	000000000	000000000	0 0 0 0 0 0 0 0 0	0000000	3	00000-00-0	0 0 0 0 0 0 1 0	0000000-0	1001000010	100000000	0 0 0 0 0	200000000000000000000000000000000000000	1000000000	1001000010	0000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0	00000-0000	000000000000000000000000000000000000000	00000000
21 22 23 24 25 26 27 28 29	100000000	0000000000	0000000000	0000000000	000000000	0000	0 0 0	1	0000000000	000000000	0000010000	0000010000	0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	00100.0000	0 1 1 0 0 0 0 0 0 0	0010000000	0010000000	0010000000	0.10000000	0010000000	0 0 1 0 0 0 0 0 0 0	000000000	0000000000	000000000000000000000000000000000000000
MEAN	0	0	0	o	٥	0	0 (	0	0	0	0	0	٥	0	٥	0	٥	٥	0	0	0	0	o	U	0.1

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.0: PARTS/MILLION

														-						9				
	STAT	ION .	¢	NO	33019,	ME	T BRANC	H SCA	RBOROUGH	BLUF	FS.	SCARE	ORO		LON	гн - с	)CT	80						
HOUR	*	2	3	4	5	6	7 6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	AN
1 2 3 4 5 6 7 8	000000000	0000000000	0000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			000000000	0000000000	0000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	00000000000
11 12 13 14 15 16 17 18 19	000000000	0000000000	0000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0	0 0	0 0 0 0 0 0 0 0 0 0	000-000000	0001000000	0 0 0 0 0 0 0 0 0	000000000	0 0 0 1 0 0 0 0	0001000000	000-000000	0000000000	0000000000	000000000	000000000	000000000	0000000000	00000000
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	0000000000	000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0000:0:0000	0000000000	0000000000	00000	0000000000	000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	0000000000	000000000	0000000000	000000000	000000000
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PERCENTAGE OF DATA VALID - 99.5 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. s	ULPHL	JR 010	XIDE							ı	INITS	- 0.	01 PAI	RTS/MI	LLIC	N						
	STA	TION -	C	NO S	3019	M	ET BS	MANCH	SCARB	CROUG	H BL	uffs.	SCAR	BORO		MON	TH - N	OV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	000000000000000000000000000000000000000	000000000	000000000	000000000	0000000000	000000000	000001000	0000001000	00000-000	000000-000	00000000000	00000	000000-000	0 0 0 0 1 1 0 0 0	0 0 0 0 1 1 0 0 0	000000000	0000000	000000-000	0000011000	0 0 0 0 0 0 0 0	0,000,000	0-00000000	0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0
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PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - O O1 PARTS, MILLION

			600 A	300			_																			
	ST	ATION		C N	0 3301	9	MET	BRANCH	SCAF	BOROL	JGH B	UFFS.	SCAR	BORO		AGON	TH ·	OLC	80							
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26	2	2	- 3	2	2 :	2 2	2	2	2	2	2		3	2	2	2	2	3		3	3	3	2	2	9	2
27	2	2	- 9			2 2	. 2	2	4	2	4	3	1	1	1	1	1	1	1	1	2	2	2	2	- 0	2
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PERCENTAGE OF DATA VALID . 92.7 PERCENTAGE OF DATA INVALID . 7.3 PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - D.DI PARTS/MILLION

TATION - C	NO 33019 MET BRANCH	SCARBORCUGH BLUFFS. SCARE	ORO	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
MAL	31	0.0	1	2
FEB	29	0.4	3	6
MAR	31	0.3	2	5
APR	30	0.1	1	2
MAY	31	0.1	1	5
JUN	30	0.2	1	3
JUL	31	0.5	1	43
AUG	31	0.7	1	2
SEP	30	0.1	0	2
oct	31	0.0	0	Y.
NOV	30	0.2	νĒ	2
DEC	28	0.5	4	7
YEAR	363	0.3	4	1.1

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLI

DEC

YEAR

8677

690

8687

POLLUTANT -	SULP	HUR (	x010	IDE											UN	115	- 0	. 01	PAS	RT5/	MIL	LION	
STATION -	C N	0 330	19		MET	BRA	INCH	4 50	ARBO	OROL	GН	BLU	FFS	. sc	ARBO	ORO							
MONTH	00 T	0 05	06	TO	10	11	TO	15	16	TO	20	21	to	25	26	τo	39	40	TO	49	50	SOVER	TOTAL
JAN		740			0			0			0			0			0			0		0	740
FEB		690			3			0			0			٥			0			C		0	693
MAR		742			0			0			0			0			0			0		0	742
APR		719			٥			0			0			0			0			٥		0	719
MAY		741			0			0			0			0			0			0		0	741
JUN		715			0			0			0			0			0			0		0	7 ! 5
JUL		736			1			1			0			0			0			0		0	738
AUG		738			0			0			0			0			0			0		0	738
SEP		715			0			0			0			0			0			0		0	715
OCT		740			٥			0			0			0			0			0		0	740
NOV		716			٥			0			0			0			0			0		0	716

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA VALID MIN 10 CONCENTRATIONS
FREQUENCY DISTRIBUTION. PERCENT
50 70 90 95 ARITH 30 99 0.3 0.0 0.0 0.0 0.0 0.6 0.9 1.7 98.9 0

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POLL	UTANT	- 5	ULPH	UR DIQ	XIDE								UNITS	٠ ٥.	C1 PA	RTS/MI	LLIG	N						
	STAT	ION -	C	NO	34002	SC	CTR	770	DON	MILLS	RD.	NORTH	YORK			MON	TH - J	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	311	12	13	14	15	16	1.7	18	19	20	21	22	23	24 15	EAN
1 2 3 4 5 6 7	1 0 0 0 0 0 3 1	1 1 0 0 0 1 3 1	1 1 0 0 0 2 1	1 1 1 1 2 1	0 2	1 1 1 1 0 2 1	1 1 1 1 1 1 1 2 1	1 1 0 1 1 0 2 1	10011131	1 0 0 1 0 1	0 0 1 0 1 1	1 0 1 0 1	1 0 1 0 3 1 1	1 0 4 1	1 1 0 1 1	1 0 1 1 2	3 0 1 0 0 0 2 1 1	0 0 0 2 1	2 0 0 1 0 2 1 1	0 0 0 1 1 1	0 0 0 0 1 1 1	0 0 0 1 1 1	0 0 0 1 2 1 1	0 0 1 0 3 1 1	1 0 1 2 1
9 10	i	1	1	1	2	1	1	2	3	1	4	9	3	0	0	0	2	1	1	1	1	1	2	2	2
11 12 13 14 15 16 17 18 19	201101101	2	2 1 1 0 1 1 0 1 1 0 1	2 1 1 2 0 1 1 1 0 1	2 2 2 0 1 1 1 0 1	2 1 3 2 0 1 1 1 1 1 1 1	2 1 2 2 0 1 1 2 1 1	2 0 1 1 1 1 1 1	1 1 2 3 1 1 1 2 1 1	1 1 3 1 1 1 3 3 1 1	1 1 2 1 1 2 1 2 1 2	1 1 1 0 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 1 1 0 1 1 1	1 1 0 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 2 1 0 1 2 0 1 1	1 1 2 0 1 1	1 1 0 1 1 2 1 1 1	1 1 1 2 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29	1 2 1 1 1 1 2 1 2	1 2 1 2 1 2 1 3	1 2 1 1 1 1 2 1 3	1 2 1 1 1 1 2 1 3	1 4 1 1 1 2 1 2 1 3	1 2 1 1 2 1 2 1 3	1 3 1 1 2 1 1 1 1 1 3	1 2 1 1 2 1 1 1 1 3	1 2 1 1 1 1 1 1 1 1	0 2 1 1 3 1 1 1 1 1	0 2 1 1 3 1 2 1 1 1	0 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 3 1 1 2 1 1 1 2 1	311221111111111111111111111111111111111	3 1  2 1 2 1	2 1 2 1 2 1 2	1 2 1 2 1 2 2 1 2 2	1 2 1 2 1 1 2 1 1 1 1	1 2 1 1 1 1 1 1	2	1 1 1 2 1 1	1 1 1 1 1 1 1 1 1 1	3 1 1 1 1 1 1 1 1 2 1	6 1 1 2 1 2 1 3 0	1 2 1 1 1 1 1 1 2
31	1	1	1.	1	1	•	1	1	1	15	1	1	1	1	Ť	1	1	1	1	1	1	1	ţ	,	*
MEAN	1	1	t	1	1		1	1	1	1	7	1	31	1	1	1	1	1	1	1	1	1	1	1	1.1

PERCENTAGE OF DATA INVALID - 1.6 PERCENTAGE OF DATA UNAVAILABLE - 0.1 PERCENTAGE OF DATA VALID - 98.3

<sup>--</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	(5)																									
	s	TATIO	N ·	С	NQ	34002	s	CTR	770	DON	MILLS	RC.	NORTH	YURK			<b>208</b>	,TH ·	FEB	80						
HOUR	1	:	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24	MEAN
DAT																										
			ē.	2			1	1		1	1	1	1	0	0	1				••••						
1 2																		****		2	2	2		- 7	7	2
3					2	1	1	1	1	1	1	1	- 1	,	1	1	1	3	,	1	- 1	- 1	- :	- 1		- 7
3	?			- 7		- 1	,	i i	1	0				0	0	1	1	3	1	1	1	- 1	1		ò	
	- 1			- 1		- 1		i		1	1	1		1	1	1	2	*		1	2	- 1	1	o	ŏ	
2	1		•	ò	ò	ò	÷	î	1		1	1		0	1	1		1-		0	3	0	0		ŏ	ċ
6	0		2	0	ŏ	ŏ	ò	ò	ò	ò	0	0	٥	0	0	0	0	1	0		0	0	0		,	·
7	0			Ö	٠	Ÿ	Ÿ	ĭ	- 1	ĭ	-	1	1	1	1	2	1	1	1	1	~ 1	1	1	1		
8	1		1				- 1	- 1	- 1		1	2	2	1	1	1	1	1	1	1	- 1		1	0	0	
9	1		4		ò			-	2	3	3	2		2	2	1	1	3	3	1	1	- 1	1	2	2	4
10	0		3	٥	U	38			•	•		_	-											1781		
				_					4	4	10	7	6	3	5	2	2	2	4	2	3	3	2	1	1	3
11	4		3	3	3	3	2	•	- 7	2		1		Ť	1	1	- 1		1	1	3	1	1	4	4	
12	,		1	1	1	1	1	1		2			,	3				1	5	12	6	4	4	4	4	3
13 14 15 16	2		1	1	2	2	2	-	- 1	4	- 2	- 4		ī	1	1	1	1	1	1	1	1	1	1	٥	2
14	3	Ü :	3	3	3	4	4	*	- 3	7	2	- 1	1	2	,	2		1			1	1	1		1	1
15	1		1	1	1	- 1			- 2	2	2			- 1	2	1		1	2	2	2	4	5	4	3	
16	1		1	1	1	1	2	3	3	2	2	,		19	- 7	1	1	1	1	2	2	2	2		2	1
17	2		2	1	1	1	1	1	- 1			Š				2	8	12	10	10	14	6	3	4	5	6
18	2		2	4	4	3	6	5	3	5		3		5			4	4	3	3	3	3	3	3	3	
19	5		5	8	4	7	10	5	4	- 4	3		2 2	ă	7	- 7	3	4	3	3	2	3		2	2	2
20	2		1	2	2	2	2	2	2	2	2	•			-		-	105	-	-	-	_				
									-			-				1	- 1	1	- 1	1	1	1	1		1	1
21	2	2	2	2	2	1	1	1	2	1	1	- 4		- 1	- ;		4	4	- 1		1	1	- 1	1	1	1
21	1		1	1		,	1	1	1		1	- 1	1	- 4			,	,	,		2	2	2	2	2	2
23 24	1		1	1	,	1	1	1	- 1	,	1	- 1	2	- 4	-	1	•	- 7	- 7	ī	- 7	ī	1	- 1	1	1
24		2	2	3	2	2	1	1	- 1	2		- 1	1 1					0	0	•	1	1	1	1	2	. 1
25 26 27	- 8	E :	1	1	1	1	1	1	1		1		!!	- 1				ĩ	1	3	7	1	3	2	4	2
26	9	1	1	1	1	1	1				1		1 1	- 1					- 1	- 7	- 1	î	1	1	- 1	2
27	9		6	2	3	5	2 '		2		2 2	- 8	2 1	- 1	- 3			ò	ò		,	,	2	1	1	1
28		2	1	1	1	1	1	1		7 I	1 1		1 1	- 1	_ 1		2010	Ÿ	2	3	ō	ō			. 0	0
29	i		٥	1	0	0	0	1	0		0	3	0 0	0	0	, 1	,		-	,						
												55	2 3				2	2	2	2	2	2	2	2	2	1.7
MEAN		2	2	2		2	2	2	2	1 :	2 2	6	2 1	1	1	2	2	- 2	- 2	-	-		S			

PERCENTAGE OF DATA VALID - 93.2 PERCENTAGE OF DATA INVALID - 6.5

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.0														1 PAF	PARTS/MILLION										
	STAT	ION -	c	NO	34002	SÇ	CTR	770	DON	MILLS	RD.	NORTH	YORK			SION	н - м	AR	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN	
1 2 3 4 5 6 7 8 9	0 3 1 2 1 1 3 2 2 3	0 3 2 2 2 1 3 2 1 4	0322212223	022212232	1 2 2 2 2 2 2 3 2	2 2 2 2 2 2 2 2 3 3	0 2 3 2 2 2 2 3 2	1 3 3 2 2 1 3 1 3 3	0 4 2 2 2 1 2 1 2 4	2 2 3 1 2 1 2 3	0 1 2 2 4 1 1 1 2 2	2 2 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 2 2 2 2 2 1 2 3	3 4 1 2 3	1 22 3 1 5 3 1 3 3	3 2 2 6 3 1 3 3	1 1 2 1 4 2 1 3	1 1 2 1 2 3 1 3 2	1 1 2 1 2 7 1 2 3	1 2 1 2 5 1 3 2	1 1 2 1 2 3 1 3 1	1222122131	2 2 2 1 3 2 1 3 1	2 1 2 1 4 2 2 3 1	2 2 2 2 3 1 3 2	
11 12 13 14 15 16 17 18 19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1 0 1	1 1 1 1 1 1 2 1 0 1	1	1 2 2 1 1 2 1 0 2	1 1 1 1 1 0 2	1 2 1 1 1 1 1 1 3	1 2 1 1 1 1 2 1 2		1 2 1 3 1 4	1 1 3 1 2 1 2 3	1 1 3 1 1 1 2 3	1 1 3 1 1 1 2 3	1 3 1 1 2 3 3	1 2 1 1 2 3	1 1 2 1 1 3 3 3	1 2 1 1 4 4	1 1 1 2 1 1 1 1 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 2	1 1 1 1 2	1 1 1 1 1 2	2	1 1 2 1 1 1 1 2 2	
21 22 23 24 25 26 27 28 29 30	2 1 1 2 0 1 0 1 1 0	2 2 1 2 0 1 0 0 0 0	1 2 1 2 0 1 0 0 1 0	2 2 1 2 1 1 0 0	2 1 2 1 1 0	1 3 1 2 1 1 0 0 0 1 1 1	2 3 1 2 1 1 0 0 0 1 1	1 2 1 1 1 1 1 1 1 1	1 2 2 1 1 1 1 1 1 1 1 1 1	2 2 1	1 2 2 1 1 1 1 1 1 1 1	2	3	3 2 1 0 1 1 1 1 1	1 2 4 1 2 2 1 1 1	1 1 2 1 1 1	1 1 2 2 2 1 1 1 1 1 1 1	1 2 4 1 2 5 1 1 1 1 1	1 2 3 1 2 9 0 1	1 2 3 0 3 7 0 1 1	1 2 2 0 2 1 0 1 1 1	1 2 0 1 0 0 1 1 1	1 2 0 1 0 0 1 1 1	0 1 0 1	1 2 2 1 1 2 0 1 1 1 1	
31 MEAN	1	1	1	,	1	1	1	1	1	1	1	1	1 2	· • • • 2	2	0	2	1	1	1	1	1	1	1	1.5	

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	STA	TION	c	NO	34002		C CTR	770	DON	MILLS	RD.	NORTH	YORK			MON	тн - д	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7	0 2 1 1 1 0 1	0 1 1 1 0 1	0 2 1 1 1 0 1	0 1 1 0 1	0 2 0 1 1 0	0 2 0 1 1 0 1	0 1 0 1	0 1 1 1 0 1	1 0 2 1 0 1	1 2 1 -0 1	1 1 2 1 1 2	1 1 2 1 1 2	1 1 1 1 2	1 1 1 1 0 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 3	2 1 1 1 1 3	2 1 0 1 1 2	2 1 0 1 1 1 1 1	1 0 1 1 1	1 1 0 1 1 3	1 1 1 0 1 4	1 2 1 1 1 1 2	1 1 0 1 1	1 1 1 1 1 1 1 2
8 9 10	1 1	1	1	1	1 2	1 3	1 1 2	1	1	1	1 2	2	1 2 1	1 2 1	1 2 1	1 1	1	1 2	2	1 2	1 3	2	;	1	1
11 12 13 14 15 16 17 18 19	0 1 0 1 0 1	0 2 1 0 1 0 1	t 1 1 2 0 0 1	1 1 0 2 0 0 1 0 1	1 1 0 2 0 0 1 0 1	1 0 2 0 0 1 0 1	1 2 1 0 2 0 0 1 0 1	1 1 0 1 0 1 0 1 1	1 1 0 1 0 2 1 1 1	1 1 0 1 0 5 1 1	0 2 0 3 1 2 1	0 1 1 0 5	1 0 4 0 2 1	1 2 1 0 1 0 2 1 2 1	0 1 0 1 2 2 1	1 2 1 0 1 1 2 2 1	2100011221	1 0 0 1 1 1 2 1	000	1 1 1 1 1 1 2 1	1 0 0 1 1 1 1 2 1	2 0 0 0 1 1 1 2 1	1 0 1 0 1 0 2 1	100000000000000000000000000000000000000	1 0 1 0 1 1 1 1
21 22 23 24 25 26 27 28 29 30	1000000100	000000100	000000100	000000100	000000000000000000000000000000000000000	0 0 1 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	0 0 1 0 1 0 0	000000000000000000000000000000000000000	0 0 0 4 0 1 0 0	0000011100	0	0 0 0 1 1	0 1 0 1 0 1	0 0 1	0 0 1 1 1 0 0 1	1 1 1 1 0 0 1	1 0 1 1 1 0 0 0	0 0 0 1 1 1 0 0 0	1000	0000111000	. 0 0 0 1 0 0 0	0 0 0 0 0 0	0000001000	0 0 0 1 1 1 0 0
MEAN	1	ĭ	1	1	1	1	1	1	1	1	Ĭ	Ť	1	4	İ	7	1	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 1.0

NOTES 1. "---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \* . " INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES SRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/WILLION																								
	STA	TION .	c	NO	34002	sc	ÇTR	770	DON	MILLS	RD.	NORTH	YORK			MONT	rH - 18	AY	80						
HOUR DAY	-1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	00011100	0 0 1 1 1 1 1 0	0 0 0 0 1 1 1 0	0 0 0 1 1 1 0	0 0 0 1 1 1 0	0 0 0 0 0 1 1 0	0 0 0 0 1 1 0	00100110	0 0 1 0 0	0 1 0 2 1 0 0	0 1 1 2 1 0 0	1 1 2 2 0 0 0	22	1 1 2 2 0 1 0	1 2 1 2 1 1 0 1	1 1 2 1 1 0 1	1 - 1 - 2 - 1 - 2 - 0 1	1 1 1 0 1	2 0 1 1 1 1 0 1	1 0 1 1 0 1	1 0 1 1 0 1	1 0 1 1 0 1	0 0 1 0 1 0 1	0 0 1 1 0 0 1	0 0 1 1 1 1 0 0
10	;	1	1	1	1	1	1	1	1	1	1 2	1 2	1 2	1 2	2	1 2	1 2	1 2	2	1 2	2	1	1	3	1 2
11 12 13 14 15 16 17 18 19	2 1 0 0 0 0 1 1 1 0	2 1 0 0 0 0 1 1 1 0 0	2 1 0 0 0 0 0 1 1 0	0 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 0 1 0 0 0 1 1 0	2 2 0 1 0 0 1 1 1 0 0	2 2 0 1 0 0 1 1 1 0	2 1 0 1 0 0 1 1 1 1 1	3 1 0 1 	3 1 0 2 2	3 1 0 2 0 2 1 2 2 1	2 0 2 0 2 1 4 2	2 1 1 1 0 7 2 3 3 2	2 1 0 6 2 - 2 1	2 1 1 0 2 2 2 2 1	2 1 2 1 2 1	2 1 1 2 2 1 2 1	2 1 2 1 2 1 3 1	1 0 1 1 1 1 1 1 3 1	1 0 1 2 1 1 1	0 0 0 0 1 1 1 1	0000	1000	1 0 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29	0 1 0 1 1 1 2 •	0 1 0 1 1 1 2	0 1 0 1 1 1 1 1 1 2	0 1 0 1 1 1 1 1 1 2	0 1 0 1 1 1 1 1 1 2	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 0 1 1 1 0 1 1	0 1 1 1 0 1 1	1 1 1 1 1 1 2	1 2 2 1 1 1 1 2 1 2	1 2 2 1 1 1 1 1 2 2	2 3 3 2 1 1 1 1 2 3	2 3 4 2 1 1 1 2 3	2 3 5 2 1	2 4 2 1	2 4 2 1 1 3 1 3	4252111213	4 1 4 2 1 1 1 1 1 3	3 2 1 1 2 7 1 3	2-3207-3	2 1 1 2 1 1 3	2 0 2 1 2 1 1 1 3	2 0 2 2 0 2 3 1 1 3	1 0 2 2 1 1 1 1 1 2	1 2 2 1 1 1 1 1 3
31	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2	1	1	1	1	1	11	1	2
MEAN	1	1		1	1	Í	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1		1	1.1

PERCENTAGE OF DATA VALID . 97.7 PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	· с	NO	34002		SC CTR	770	DON	MILLS	RD.	NORTH	YOR	(		NON	тн -	UĽN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1	4	1	1	1	1	1	1	1	1	4	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	0	1	1	- t	4	12		3	4	2	1	1	1	1	0	0	0	2
3	0	0	1	1	1	0	0	000	0	0	0	1	0	1	1	1	1	2	3	2	1	2	0	1	1
4		1		0	0	1	0	0	0	0	1	0	1	1	1	1	2	:	1	1	1	1	0	1	1
5	0	0	0	0	0	0	1	0	1	0	0	1	1		1	1	2	2	2	1	0	0	0	0	1
6	0	2 -	1	1	1	1	0	0	1	0	1	0	0	1	1	î	٥	0	0	-1	0	0	0	0	1
7	0	0	1		1	1	1	1	1	1	1	1	1	1	-1	1		1	2	1	1	1	1	0	1
8	0	0	0	0	1	0	1	1	1	1	1	0	0	0		0	0	0	0	0	0	0	0	0	0
9	00000	0	0	0	0	0	. 1	1	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0
11	0	o	٥	0	٥	0	0	0	0	ō	c	1	3	:	3	٤	2	ū	0	0	ů	3	S	c	2
12	0	0	0	0	0	0	0	1	1	1	1	2	• • • •		1		1	1	2	2	2	2	1	1	1
13	0	0	0	0	0	0	1	2	2	1	2	2	2	2	3	4	4	3	4	4	3	2	1	1	2
14 15 16 17 18	1	1	0	0	0	0	1	3			4	4	3	3	3	3	3	3	3	3	2	2	1	1	2
15	1	1	1	1	1	000	0	0	1	1	2	2	1	1	1	1	0	0	0	0	0	0	0	٥	t
16	0	0	a	0	0	0	0	0	0	0		0	••••	0		0	1	1	1	1	1	0	0	0	0
17	0	0	0	0	0	0	0	1	1	1	3	2	2	2	2	2	2	2	2	1	2	2	1	1	1
18	1	1	1	1	1	1	1	1	1	2	3	3	2	1	1	1	1	1	5	1	1	1	1	٥	1
19	0	0	0	0	0	0	0	1	1	1	1	1		1	1	2	2	2	2	2	2	1	1	1	1
20	1	1	1	1	1	1	- 1	1	1	1	****	1	,	1	1	1	Ĭ	1	1	0	0	0	٥	0	1
21 22 23 24 25 26 27 28	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1
22	1	٥	0	0	0	0	0	1	1.	2	3	3	3	2 5 6 6	2	2	3	2	3	2	3	2	2	1	2
23	1	- 1	1	1	1	1	- 1	2	3	3		2	3	5	3	2	2	4	4	3	2	3	2	2	2
24	2	1	1	1	1	1		3	8	5	8	5	5	6	7	5	*	5	5	4	4	5	4	3	4
25	2	2	2	2		1	2	2	3	. 4	4		6	6	4	4	5	6	4 '	***	2	2	2	2	3
26	2	1	2	- 1	1	1	1	2		••••	4	4	4	3	4	3	3	3	2	2	3	3	2	2	2
27	1	1	1	- 1	2	2	2	2	1	1	1	1	1	1	1	1	1			1	1	1	1	- 1	1
38	!	1	- 1	- 1	1	1	1	- 1	0	0	0	0	٥	1	1.	- 1	1	1	1	1	1		1	1	1
29 30	1	1	- 1	- 1		1		- 1		. 1		0	0	1	- 1	1	1	1	1	1	1	1	1	1	1
30	1.	1	1	1	1.	3.	-1	1	- 1	1		0	0	٥	1	1	1	,		1	2	2	2	1	
MEAN	10	1	1	1		1	-	1	1		2	2	2	2	2	2	1	2	2	1	1	1	1	1	1.1

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE . 0.1

NOTES 1. "\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- SI	ULPH	UR DIO	IDE							U	NITS	- 0.0	1 PAR	TS/MI	LLION	•						
	STAT	ION -	c	NO	34002	sc	CTR	770	DON	MILLS	RD.	NORTH	YORK			VONT	н - Ј	UL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0200-10200	0 2 0 0 1 1 0 2 0 0	0200110100	0100110100	0 1 0 0 1 0 0	0100110100	0000110100	0 1 0 1 2 1 0 1 0 0	0 0 1 1 2 1 1 2 0	0 0 1 3 0 2 1	1 1 0 1 4 0 1 1 0 0	1 1 3 1 2 1 1 2	1 1 1 3 1 2 1 1 4	1 1 2 4 3 1 3 1 1 3	1 1 6 4 2 1 2 2 1 2	1 1 6 3 2 1 1 2 2 2	5 3 2 1 2 2	2 1 4 3 2 1 2 2 2 2	2143211123	2 1 3 3 2 1 2 1 1 5	1023213114	1 0 1 2 1 1 2 0 0 2	1012212001	2 0 1 2 1 0 2 0 0 2	1 1 2 2 2 1 1 1 1 2
11 12 13 14 15 16 17 18	20000211111	1 0 0 0 0 2 1 1 1 1 1 1 1 1	1 0 0 0 3 1 1 1 2 1	1 0 0 0 2 1 1 0 1 1	0 0 0 0 0 0 0 1 0 1 1	1000401011	1 0 0 0 0 3 0 1 1 2 1	1 0 0 1 1 0 1 1 2 1	1000210011222	1 0 0 1 0 2 2	1 0 0 1 1 1 1 1 4 2	1 0 0 2 2 1 1 2 4 2	1 2 3 1 1 2 2 2	1 0 1 2 4 1 1 2 3 2	1 2 4 1 1 3 3 3 3	1 0 1 2 2 1 1 1 3 3 3	1 0 1 3 2 1 1 1 4 4	1 0 1 2 1 1 1 1 3 4	1 0 1 3 1 3 2 1 3 6	1 0 1 4 1 5 2 1 3 5	1 0 0 7 1 3 2 1 3 3	1 0 0 4 1 2 1 1 2 2	0 0 4 1 2 1 1 2 3	0 0 3 1 2 1 1 1 3	10022
21 22 23 24 25 26 27 28 29	3000121210	2 0 0 0 1 1 1 2 1 0	2 0 0 0 1 1 1 2 1 0	2 0 0 0 1 2 1 2 1 0	2 0 0 0 1 1 1 2 1 0	2010121210	2 0 1 0 1 2 2 2 0 0	2 0 1 0 1 2 2 2 1 0	2010012331100	0 1 2 3	1 2 3	1 0 1 0 2 2 2 3 0 2	201222120	2 1 1 4 2 2 3 1 2 1	2 1 4 2 2 3	2 1 0 2 2 2 3	202251	1 3 0 2 2 1 4 1	1 1 0 2 2 1 3 1 1 1	1 1 0 2 2 1 3 1 1 0	1 1 0 1 2 1 3 - 1 0	0 1 0 2 2 1 3 - 0 0	0 1 0 1 2 1 2	0 1 0 1 2 1 2 1 0 0	2 1 0 1 2 2 2 1 1 0 0
31 MEAN	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1 2	1	1	1	1 2	1 2	2 2	1	1	1	1.2

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES SHANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

	51	TATION	· c	NO	34002	2	SC CTR	770	DON	MILLS	RO.	NORTH	YORK	4		1-104	NTH -	AUG	80							
HÕUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	r
	1		4	٥	0	٥	0	٥			1	1	ĩ	1		î	,	1	1		1		1	1		1
2	1	1	- i	,	1	ĩ	1	1	1	1	- 1	4	2	2	2	2	,	1	- 1	1	1	1	1	1		
3	1	1	1	0	0	0	0	0	0	0	1	1	1	2	2	2	2	2	2		1	0	0	0		1
4	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1			1	1		0	0	1	1		3
5	1	1	1	1	1		1	1	1	1	1	2	2		2	2	3	2	2	2	2	2	2	2		2
8	2	2	2	2	2	2	2	1	1	2	2	2		1	2	2	2		1	1	1	1	1	1		2
7	1	1	1	1	2	1	1	3	3	2	4	2	2	4	4	3	2		2	2	2	2	2	1		2
8	1	1	1	1	1	1	1	2	2	2		1	1	1	1	3	2	5	2	2	2	2	2	2		2
9		2	2	2	2	2	1	1	1	1	1	1	3	1	1	1	1	2	1	1	1	1	1	2		- 1
10	2	1	3	1	•		0	0	0	1	1	Ĭ.	1	1	1	1		0	0	0	0	0	0	0		1
11	••••	••••		••••		****	****	•••			••••	****	••••	••••	***	1	••••	1	1	1	1	1	1	1	••••	••
12	. 1	1	1	1	3	1	1	1	1	1	1		1	1				4	4	4	2		1			
13	1	1	1	- 1	1	0	0	1	1	1	0	1	1	2	3	3	1		1	1	- 1	2	- 2	- 1		
14	. 1	1	1	- 1	1	1	1	2	2	1	1	2	2	2	2	2	2		1	!		1	- 1			
15	1	1	1	1	,	1	1	2	2	1	1		1	- 1	1	- 1	2	2	1	- 1	1	ò	- 1			
16	1	1	1	1		1	1	0	0	0	0		1	1	1		- 2	1			·	·				
17	0	0	0	0		0	0	0	1	•	- 1	1	1	1	1			1		1				ó		
18		1	1	1		1	****	1	1	1		2		****	1	- 1	2	à	2	2	- 1	1		ĭ		•
19		1	0	0		0		0	0	1	1	- 1	1	1	0	,	- 2	1	- 1		- 2	4	4	2		•
20	1	0	0	0	0	0	0	,	1	- 1	1	1		- 1	1						,			-		
21	1	1			1		1	2	2	1	1	2	2	2	2	2	2		2		1	2	1	1		2
22	1	2	2	2	2	2	2	1	1	2		1	2	1	2	2	2		1		3	1	- 1	1		2
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3		2	4	1	1	- 1	1		
24 25 26		1	1	1	1	1	1	1	1	1	1	2		,	2	3	2		2	1	1	1	2	2		2
25	1	1		- 1	1	1	1	1	1	1	2		••••	••••	3	7	4			3	2	2	2	2		2
26	1	2	1		1	1	1		1	1	2		3	3	4	3	3	3	4	3	3	3	2	ž		3
27	2	2	2	3		2	2	2	2	3	3		3	4	- 4	3	3	3	3	2	2	2	ő	ő		ő
28	2	2	2	1	1	1	1	0	0	0	0	0	****	0	0	' 0	C	1	0	0	0	Ÿ	1	1		1
29	0	0	0	0		0	0	0	0	1	- 1		- 1		1		1	3	2	2	2	,	,	2		,
30	1	0	0	0	0	0	0	0	0	1	2		3	-	1	3	- 4	3	- 2	2	2	-	•	•		
31	2	2	1	1	1	1	1	1	1	2	2	3	2	3	2	2	2	2	1	2	2	1	1	1	(6)	2
MEAN	1	1	1	,	1	1	1	1	1	1	1	2	1	2	2	2	2	2	1	1	1	1	1	1	1	. 2

PERCENTAGE OF DATA VALID - 95.3 PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	- S	ULPH	UR DIOX	DE								UNITS	. 0.	01 PA	RT5/MI	LLIO	N						
	STA	TION -	c	NO	34002	sc	CTR	770	DON	MILLS	RD.	NORTH	YORK			MON	TH - 5	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	1 2 0 0 1 1 0 0 1	2 4 0 0 2 0 0 0 0 0	230020000	1400100000	3000	2200100000	2 2 0 0 1 0 0 0 0 0	2100100000	1 2 0 1 1 1 0 0 1 0	2 7 0 1 1 1 0 1 3	2 2 0 2 2 1 0 0 2 0	2 1 0 3 2 1 0 1 2 0	3 1 1 1 3 0	2 1 1 1 1 3 0	2 1 5 2 1 1 2 2 0	2 1 8 1 1 1 1 2	4 1 8 1 1 3	3 1 7 3 1 1 2 2 . 1 1	2 1 3 3 1 1 1 2 1 1	202	2012001100	200-0-00	2012010100	2002000-00	2 2 1 1 1 0 1 1 0
11 12 13 14 15 16 17 18 19 20	000001001	060000-001	0 0 0 0 1 1 0 0 1	0000011000	0 0 0 0 1 1 0 0 0	00000000	0000001000	0 0 0 1 1 1 0 0 2	1 0 0 0 0 1 1 0 0 3	0 1 0 1	10000	000000000000000000000000000000000000000	1 30 00 1 1 0 1 0 2	0001	1000211312	1000210212	1 0 0 1 1 1 1	0 0 1 1 0 1 1 1	1 0 1 0 0 1 1	1 0 0 0 1 0 0 0 1	10001	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0010010001	10000
21 22 23 24 25 26 27 28 29	0 1 0 0 0 0 0 0 0 0	0,0000000	0 1 0 0 0 0 0 0 0 0	0100000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 0 0 0 0 0 0 0 0	0000000000	000000000	000000000000000000000000000000000000000	0 0 1 0 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00200213	000000000000000000000000000000000000000	1400-00014	2 2 0 0 5 0 0 1 1 5	2 3 0 0 2 0 0 1 1 5	2 1 0 0 0 1 0 0 1 1 3	2100100004	20000004	1000004	1 0 0 0 0 0 0	0000000	100000000	1 0 0 1 0 0 1 0 2
MEAN	0	0	0	0	О	0	0	0	1	i	•	1	Ť	ï	i.	1	1	1	1	1	1	0	0	0	0.7

PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES ERANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OI PARTS/MILLION

	STA	TION	· ¢	NO	34002	s	C CTR	770	DON	MILLS	RD.	NORTH	YORK	Ę		VON	<b>h</b> - c	CT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7	2 2 0 0 0 0 0 0 0	0 0 0 0	000000	0000000	000000	0000000	000000	1000011	0 0 0 5 1	0 0 0 0 2 1	0 0 0 1	0 1	1000000	0 0 0	0000	-0000-1	10000000	000000	0 0 0 0	0 0 0 0 1	1000000	1 0 0 0 0 0	1000000	0 0 0 0 0	00001
9	0	0	000	000	0	0	0	00	3 0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19	000000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000		0000000	00000-0000	00000	000000	000-000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000
21 22 23 24 25 26 27 28 29	000-000-00	0001000100	1 0 0 1 0 0 0 0 0 0	100000000000000000000000000000000000000	00000000	000-000600	0 0 0 0 0 0 0 0	000-000000	0000000000	0000000000	0001000000	0 0 0 0 0 0	000000		000000000000000000000000000000000000000	000000000	000000000	00000000	0 0 0 0 1	0 0 0 0 0 0 0 3	0000-0000	0000000000	0000000000	0000000000	000000000
31	0	0	0	0	0	0	0	0	٥	0	0		0	٥	0	٥	٥	٥	٥	٥	٥	0	0	٥	0.1
MEAN	0	0	0	0	0	٥	0	0	0	0	0	0	٥	0	0	0	٥	0	0	0	0	O	U	-	0.1

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUTA	INT -	SULF	HUR D	OX LOS								UNITS	- 0	01 P	ATS/L	ILLIC	N						
	57	ATION		C NO	3400	2	SC CT	R 770	DON	MILLS	RD.	NORTH	YORK	•		A:ON	итн -	NOV	80						
HOUR DAY	1	2	3		5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
3 4 5	0 0 0	0 0 1 0	0		0 0	0 0 1 1 0	0 0 1	0 0 2 1	00000	0 1 0 0	0 0 0 0		00 20 0	00200	00000	0020	001000	0 0 1 0 0	00100	00100	0 0 1 0 0	0 1 0 0	0000	0 2 0 0	0
7 8 9	0 0 0	0000	Ċ		0 0 0	00000	00000	00000	0000-000	0000	0 0 2	5 1 0	000	0 0	0 0 0	0	0000	00000	00000	00000	0000	00000	0 0	000	000
11 12 13 14 15 16	0	0 0 2 0	9		1 2	0	0	1 1 0	0	0 1 1 0	0	0 1 0 .		O 1 1 0 INVAL		0 1 3	0 3 	0 3 3	3	0 2 2		0 1			1
18 19 20	3 3	3 3			2 2	2 3	2	3 3	3 3	2 3	2	2 5	) 5	3	2	2	3	2 2 3	2 2 2	2 2	2 2	2 2 2	3 2 2	3	2 3
21 22 23 24 25 26	3 5	3 4 4	1			2	4 5 2	1 4 2	3 2	3 1 4 2	1 7 2	2	1 2 5 2 0414 0414	1 2 5 2 I NVAL	1 2 5 2 10 -	1	1 4		3	5 2	5	2	4	!	2 2 4 2
27 28 29 30	000	0			0	_	000	0 1	0	0 1 0	0	0	0	0	0 0	0 0 1	1	0	0 0 1	1	0 4 0 2	0 4 0 2	0 2	0 1 0 2	0
MEAN		1	- 1	( )	1	1	1		1	1	1	1	1	- 1	3	1	1	1	1	1	1		1		0.9

PERCENTAGE OF DATA VALID - 79.6

PERCENTAGE OF DATA INVALID . 20.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	ST	ATION	(	C NO	3400	2	SC CTF	770	DON	MILLS	RD.	NORTH	-	4		1:31	TH .	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	1 0 0 1 1	10011	1 0 0 1 1	2 1 1 0 0 1 1	2110011	1 0 0 1	1 0 0 1	2110011	2 1 1 0 0 1 1	000	0	1 1 0 0 1	1 1 0 0 1 1	1 0 0 1 1	000	1 1 0 0 0 1	0 0	1 1 0 0 0 0 1	1 1 0 0 0 1	000	1 1 0 0 0 1	1 1 0 0 1 2	0 1 1 2	1 1 0 1 1 2	000
9	1 0	0	1	1			1	1 0	1 0	1 0	0	0		0	0										
11 12 13 14 15 16 17	2200	 2 2 0	2 2 0 0	2 2 0 0	2 2 0 0	2 2 0 0	2 1 0	1 0	2 0 0	0 0	2 1 0	2 4 0 0	DATA DATA DATA DATA		LID - LID - LID - 2	0	3 0 0	1 4 0 0 0	1 2 0 0 0	1 2000	1 2 0 0	1 2 0 0	1 2 0 0 0	3 0	2 1 0
20 21 22 23 24 25 26 27 28 29 30	0022012062	0 0 0 5 2 0 1 1 0 6 2	0 0 6 2 0 1 1 1 5 2	0 0 0 6 2 0 1 0 1 5 2		0 1 6 1 0 1 3 2	0 1 4 1 0 1 1 1 3 2	0 0 1 4 1 0 2 1 1 3 1	0 1 5 1 0 4 1 1 3 1	1 0 1 5 0 1 3 2 2 3 1	0 1 4 0 1 4 2 6 3 0	0 0 2 3 0 1 8 1 4 2 0	0 0250171510	0 0 3 6 0 7 6 0 4 0	0 7 0 7 8 0 4	0 0 3 2 0 1 8 0 5 0	0 0 1 20 1 50 4 1 0	0 0023130313	0 0 2 0 1 2 0 3 1 0	0 0 0 0 1 2 0 3 1 0	0 0 2 0 1 2 0 3 1 0	0 0 2 0 1 2 0 3 1 0	0 0020120410	0 1 2 0 1 2 0 5 1 0	0 0 1 4 1 1 3 3 3 3 1
31 MEAN	0	0	0	0	0 1.	0	0	0	0	0	0	0	3	2	2	0	0	0	0	0	0	0	0	1	1.1

PERCENTAGE OF DATA VALID - 78.1 PERCENTAGE OF DATA INVALID - 21.9

PERCENTAGE OF DATA UNAVAILABLE . 0.0

MOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVATLABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXICE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 34002 SC CTR 770 DON MILLS RD. NORTH YORK

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1,1	2	9
FEB	27	1.7	6	14
MAR	31	1.5	3	9
APR	30	0.8	2	5
MAY	31	11	3	7
JUN	30	1.1	4	12
JUL	31	1.2	1	7
AUG	30	1.2	3	7
SEP	30	0.7	2	8
OCT	31	0.1	1	5
NOV	23	0.9	4	7
DEC	24	11	4	a
YEAR	349	1.0	6	14

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES GRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

STATION . C NO 34002 SC CTR 770 DON MILLS RD. NORTH YORK

MONTH OC	10 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 10 39	40 10 49	50 GOVER	TOTAL
JAN	729	2	٥	0	0	0	G	0	731
FEB	629	16	4	0	0	٥	0	0	649
MAR	732	4	٥	0	0	0	0	0	736
APR	704	0	٥	٥	0	٥	٥	0	704
MAY	725	2	0	0	0	0	٥	0	727
JUN	695	7	1	0	0	0	0	0	703
JUL	728	4	0	0	0	0	0	0	732
AUG	708	1	0	0	0	0	С	o	709
SEP	706	5	0	0	٥	õ	ů	Ú	71.
OCT	734	0	٥	0	0	0	0	0	734
NOV	570	3	0	O	0	0	0	0	573
DEC	564	17	0	0	O	0	٥	0	581
YEAR	8224	61	5	o	٥	o	0	o.	8290 \

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT					CONCEN	TRATIONS					
OF DATA				FREQUEN	CY DISTR	BUTION.	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
94.4		0.0	0.0	0.4	0.8		2.7	2.0	4 7	14	

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	. :	SULPH	UR DIO	XIDE							· ·	JNITS	٠٥.	01 PA	RTS/N	11110	N						
	STA	110N -	c	NO	34007		BATHUR	ST/WI	LSON.	NORT	H Y0	RK				KON.	тн -	JAN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	1 0 2 1 0 1 0 1 1 2	2 0 1 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1 2 0 0 0 1 1 1	1 0 2 1 0 0 0 1 1 2	0 2 2 2	1 0 2 1 0 0 0 1 1 3	1 0 2 2 1 1 0 1 1 3	1 0 2 1 0 0 0 1 2 3	0 0 0 0 1 1 3	0 0 2 2 1 0 0 1 1 3	0 0 1 1 0 0 0 1 1 3	0 0 0 0 1 1 3	0 0 1 1 0 0 0 1 1 2	1	1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 6 3	1 1 0 0 0 1 1 0 2	0 1 1 0 0 1 2 0 1	0 1 1 0 0 1 1 0 1	0 2 1 1 0 0 1 1 1 1 1	0 0 1 1 1 1	0 1 1 1 0 1 1 2	0 2 1 1 1 0 1 1 1 3	1 0 0 0 0 1 1 2
11 12 13 14 15 16 17 18	3 0 1 1 1 1 0 0 0 0	301110100	2 0 1 1 1 1 0 1 0 0	1 0 2 1 1 1 0 1 0 0	1 0 4 3 1 1 0 0 0	2 1 6 3 1 1 0 1	2 2 1 1 1 0 0	1 1 1 1 1 0 0	1 1 2 1 1 1 1 0 0 0	1 1 1 1 0 0	2 1 2 1	1 1 2 1 1 0 1	2 1 2 1 1 0 1	0 0 1 1 1 1 0 0	1 1 1 0 1	50112100	3011212000	1 1 2	1 1 20 1 00 0	1 1 2 1 2 0 2 0 0 0	1 2 1 1 0 1 0 0 0	0:2110000	0:110000	0;1110000000000000000000000000000000000	1 : 2 1 1 1 1 0 0
21 22 23 24 25 26 27 28 29	0 1 0 0 2 . 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 1 1 1 1 3	0 1 0 0 2 0 0 1 1 3	0 1 0 0 2 1 0 1 1 2	0 0 0 0 0 1 1 1 1 3	0 : 0 0 0 3 1 1 1 1 1 3	0 0 0 3 0 1 1 1 3	0 1 0 0 3 0 0 1 1 2	0 0 0 0 0 1 1	0 1 2 0 0 0 1	2	2 0 	0 1 0 0 0 0 2 1	0 1 0 0 0 1 1	1 1 1 0 0 0 2	0 1 0 1 0 2	0 1 0 0 1 0 2 0 2	0100202111	0100110011	0 0 0 1 1 0 0 1 1	0002110111	1 0 0 2 1 1 1 1 1 1 1 1	1 0 0 4 1 1 1 1 2 0	10003	0 1 2 0 1 1 1 2
31 MEAN	1	1	1	1	1	1	1	1	1	1	1	1	0	0		1	1	1	1	1	0	1	0	0	1 0.8

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 2.0 PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- с	NO :	34007		BATHUR	ST/WI	LSON	. NOR	TH Y	DRK				N.O.	NTH -	FEB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	1.2	1.3	14	15	16	17	:8	19	20	21	22	23	24 1	MEAN
1	0	0	0	0	1	0	1	0	0	0	0	C	0	0	1	0		S	1	1	1	1	0	0	0
2	0	1	1	1	1	1.	1	1	1.	0	0	0	0	0	0			1	_ 1	1	1		3	ő	
3	4	3	3	1	1	1	1	1	1	1	0	٥	0	0		0	0	0	٥	0	0	0	·	2	ċ
4	2	0	0	0	0	0	0	0	0	••••	• • • •	0	0	0			1	C	ū	0	1	1	9	1	3
5	2	2	3	3	3	2	3	2	2	1			- 3	2	2	****	- 1		2	2	2	3			
6	1	2	1	2	2	2	,	1	1	1		1	1	- 1	1	1	- 2	1	- 1	- 1	0				
7	1	1	1	2	1	1	1	1	1	1		1	1	1	1	- 1		- !	2	1		1			
8	1	2	2	2	2	2	2	2	2	2	1	1		2		1	- 1			1		1	4		
9	1	2	2	2	2	2	1	1	1	1	1	2	1	2	•	1	- 2	- 1	1	1	1	- 2	- 4	- 1	2
10	1	1	1	2	2	3	3	4	3	2	2	2	- 1	1	1	1	3		,	1					-
11	3	5	4	2	2	2	2	2	2	2	2	2	2	2	2		1	1	5	4	1	1	1	2.	4
12	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	- 4	0	Ü
12	0	0	1	0	3	0	2 0 0 3	1		1	1	2	3	1	1		1	1	1	1	1	2	3	2	1
14 15 16	2	2	2	2	3	3	3	3	3	2	- 1	0	1		1	٥	U	0	0	0	1	,	1	1	
15	1	1	1	2		2	3	4	2	1	1	0	1	1	1	• • • •	••••		••••	••••	0	0	• • • •	0	
16	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	1	1		0	2	3	2	1.	1
17	1	1	1	1	1	1	1	2	1	1	1	1	0	0	٥	0	c	0	0	1	1	1	1	•	
17 18	1	1	1	1	1	1	1	2	1	1	1		1	1	1	1	2	2	1	1	1	3	3	3	
19	2	2	2	2	4	4	4	4	4	3	3	3	4	4	5	5	4	4	3	3	3	4	4	3	3
20	2	1	1	1	1	1	1	1	2	2	3	4	7	6	3	2	2	1	1	1	1	1	,	1	2
21	1	0	0	0	0	0	٥	0	0		0	į	٥	0	0	0	٥	0	0	0	0	0	0	0	0
22	Ó	0	ŏ	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 23	ŏ	0	0	0	00000	0	0000	1	ō	00000	0 0 0	0	0	1	1	1	2	1	1	2	3	0 3 0	3	2	1
24	- 7	ī	1	ĩ	0	٥	0	0	0	0	0	0	0	' 0	0	0	0	0	0	0	0	0	0	0	0
25	o	0		0	Ô	ò	0	0	0	0	0	0	0	0	0		0	0	0	0	0		1	1	О
24 25 26 27 28	ĭ	0	000	000	ĭ	1	1	1	000000	ō	0	ō	ō	0	0	0	C	0	0	0	0	2	1	1	0
27	ò	0	ŏ	ő	ò	۰ ه		1	ĭ	ī	1	1			ō	1	1	1	0	0	0	0	0	1	0
28	ĭ	ĭ	ŏ	ĭ	ĭ	1	1	ò	ò	ò	o	0	0	0	ŏ	0	0	0	0	2	2	1		1	1
29	i	ò	ŏ	ò	ò	ò	i	ŏ	ĭ	ī	ō	ŏ	ō	ĩ	1	1	1	2	3	1	ō	1	1	1	1
MEAN	1	,	1	1	1	ï	1	1	1	1	1	1	1	1	1	3	1	1	1	,	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 96.8 PERCENTAGE OF DATA INVALID - 2.9

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	. 5	ULPHL	R DIO	RIDE							,	JNITS	. 0.	01 PA	RTS/M	LLIO	N						
	STA	TION -	Ç	NO 3	14007	8	ATHUR	ST/W	ILSON.	NOR	TH YO	RK				MON	TH - 1	AA R	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	1 2 2 1 1 0 1	1 4 2 2 2 0 1 1 1 2	1 4 2 2 2 0 1 1 1 2	1 4 2 2 2 1 1 1 1 1 1 1	1 5 2 2 2 0 1 1 1 1 1	1 4 2 2 1 1 1 1 1 1 1 1	1 4 3 2 1 1 1 1 1 2	3 3 1 1 1 1 2	1 2 2 2 1 1 1 0 1 1	0 2 2 1 1 0 1 1 3	0 1 2 2 1 1 0 0 1 4	2	0 1 2 : 0 1 0 1 5	0 1 2 1 0 1 3	2	1 0 1 2 1 1 0 1 1 0 1 1	2012013	1 0 1 4 0 1 3	1 1 2 0 1 1 1 0 1 2	1 1 2 0 1 9 0 1 2	1012047011	201304311	1 1 4 0 2 2 0 1 0	3 1 2 3 0 1 1 1 1 0	1 2 2 2 1 1 2 1 1 2
11 12 13 14 15 16 17 18 19	0 0 1 0 0 1 5	0 0 0 0 0 2 0 0 1 6	0 0 0 0 0 3 2 0 1 7	0100041025	0 0 0 0 1 2 1 0 2 5	0 0 0 0 1 2 0 4 6	0 1 0 0 0 1 3 0 3 6	0100014027	0 1 0 0 1 0 4 0 2 7	0 - 00 00 4 0 2 9	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 3 0 3 7	0000101028	00000-005	0000101031	0000101034	0000101035	000000000000000000000000000000000000000	000001047	0 0 0 0 1 0 3 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 1 0 0 2 0 0 1 3 2	0 0 0 1 1 0 3 5
21 22 23 24 25 26 27 28 29 30	2001000121	1 0 0 1 0 1 0 1 1 1 1	1 0 0 1 0 0 1 1 1	1 0 0 0 0 1 1 1	1 0 0 1 0 0 1 1 1	0000	1 1 0 0 0 1 2 1 1	000000000000000000000000000000000000000	0 1 0 0 1	0 0 0 1 1 0 1	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 1 1 2 1 0 1	1 0 2 1 1 2 2 0 1	1 1 2 1 1 2 2 2 0 1	1 0 2 1 1 1 3 2 0 2	3 1 1 1 3 2 1 1 1	1 1 1 1 1 3 2 1 1	0 1 3 0 2 1 2 2 1 1	3 0 2 1 1 2 1 1	0 1 3 0 1 1 1 1 1 1 1 1	0 1 2 0 1 2 1 1	0 1 2 0 0 0 1 2 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 2 1
31 MEAN	1	1	1	,	1	T.	0	0	0	0	0	, i	0	0	0	0	0	0	0	0	0	0	0	1	1.1

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAIL: MEAN IN ONE DAY

#### UNITS - O.C. PARTS/MILLION

	STA	TION	· c	NO	34007	ļ	SATHUR	ST/WI	LSON.	NOR	H YO	RK				MON	ιн • ,	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0120010311	0120011321 0-000	0110001221	0 1 1 0 0 0 1 1 2 2 1 0 1 0 0 0 0	20011211000010	0120011220 0000100	002000000000000000000000000000000000000	000000000000000000000000000000000000000	0110002211	. 101002311 000000	1 2 1 1 1 0 2 2 2 1 0 0 0 0 0 0	222 000000	1 2 1 1 3 2 2 1 0 0 0 0 0	0	22-01-623- 02-0	2 2 1 1 1 1 1 6 2 2 1 0 0 0 0 1	2221216120	3 2 1 1 2 1 4 1 1 1 0 0 1 1 1 0 0 1	2 2 1 0 2 1 3 1 1 0 0 1 1 0 0 1	221011311001	2210113110 :00001	2210103110 (00001	12001102110	1 2 1 0 1 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 0 1 1 3 2 2 2 1 1 0 0 0 0 0
17 18 19 20	1 1 3	1 1 2	2 2	1 2 2	0 1 2 2	3	0 2 2	0 2 2	1 3 2	1 7 2	3 2 4 2	3 2	3 2	2 2 3 2	3	1 3 4 2	4	3	1 2 4 1	3	2 3 2	1 2 3 2	2 2 3 2	2 2	3
21 22 23 24 25 25 27 28 29 30	000000000000000000000000000000000000000	000000000	100000000000000000000000000000000000000	1 0 0 0 1 0 0	000000000000000000000000000000000000000	1 9 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	100000000	000000000	00000	0 0 0 0 0 1 1 0 0 0		0 1 1 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	3 1 0 0 0	3 1 0 0 0	120000	1 1 1 2 2 0 0 0 0 0	1 0 1 2 2 0 1 0 0	2000	1 1 0 0 0 0	1 0 0 0 0	000110000	0000+00000	1 1 0 0 0 0
MEAN	1		1	1	1	1	1	٥	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1		0.8

PERCENTAGE OF DATA VALID - 98.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 1.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVATLABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	OLLUTANT	- 5	SULPH	IR DIO	XIDE							Ì	UNITS	- 0.0	1 PAR	ITS/M	ILLIO	N						
	s	TATION -	c	NO :	34007	8	ATHUR	ST/WI	LSON.	NOR	TH Y0	RK				MONT	'н - в	YAL	80						
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6	0 0 0	0	0 0 0 0 1 1	0 0 0	00000-	0 0 0 0 1	000001	0 0 0 0 1 1	000002	0 0 0 1 1	0 0 0 0 0 0	0 0 0 1 1	0 0 0 1 1 0	0 0 0 2 1 0	0 1 0 0 1 1	0 0 1	0 0 1 2 0	0 0 1 1 0	0 0 1 1 0	1	0 0 1 2 0	0 0 0 1 2 0			0
9 10	0		1	0 0	0	0	0	0	0	0	1	0 2	0	0	0	1	0	1	0	1	0	1	1	1 1 2	0
11 12 13 14 15 16 17 18 19	0	1 1 0 0 0 2 1 1 1 1	3 1 1 0 0 1 1 1 1 1 1	2 1 1 1 0 0 1 1 1 1 1 1	2 1 2 1 0 0 1 1 1 1 1	2 1 1 0 0 0 1 1 1 1 1 1	2 2 1 1 0 1 2 1 1 1	3 1 1 0 0 1 1 1 1 1	21110111	1 0 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 0	1 1 0 1 1 1 0	4	1 1 1 6 1	1 0 5 0 1 0	1 1 0 4 1 0 1 0	1 1 0 2 1 1 2 0	1 1 1 1 2 0 3 0	1 1 0 2 1 1 3 0	1 1 1 2 1 2 0	1 1 1 2 1 1 0	1 1 0 2 1 1 0 0	0 2 1 1 0 0	1 0 2 1 1 0
21 22 23 24 25 26 27 28 29	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2	1 1 1 1 2 1 1 2 0	1 1 1 1 2 2 1 2 0	1 1 1 1 2 1 1 1 0	2 1 2 1 2 1 2 0	1 1 1 2 1 1 2 1	1 2 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	0 1 25	1 2 1 0 0 1 1 1 9	1 1 2 1 1 1 0 1 1 3	1 1 2 1 0 0 0 2	1 1 1 1 1 2 0 2	7 1 1 0 0 2 0 2	1 0 1 2 0 2	9 1 3 1 1 0 1 2 0 2	1 0 1	3 1 4 1 0 2 1	3 1 2 0 1	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 2 0 1	1 1 2 0 0	2 1 1 1 1 1 1 5 5
31 MEAN	1	0	1	1	1	0	0	0	1	2	2	1	0	1	0	0	1	1	0	0	1	1	- 1	1	1.0

PERCENTAGE OF DATA VALID - 96.8

PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION

									8																
	STA	TION	- с	NO	34007		BATHUR	ST/W	ILSON	NOR	TH YO	RK		;		VION	гн - ,	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	0	1	0	0	0	1	1	1	0	0	1	٥	0	0	0	0	o	o	0	o	o	0	o	0	0
2	0	0	0	0	0	0	0	0	1		• • • •	1	0	0	0	1	1	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	٥	С	0	1	0	0	1	э	0	0
4	1	0	٥	0	7	0	0	0	0	0	0	0	0		o	٥	0	c	0	- 1	1	0	0	O	0
5	0	0	0	0	0	0	0	0	0	0	0	o	2	4	1	1	1	O	1	1	1	0	1	0	1
6	0	1	1	1	1	1	1	1	1	2	1	o	C	0	0	1	ن	0	0	0	0	0	o	0	1
7	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	J	0	S
8	0	0	0	0	0	0	0	0	- 1	1		1	1	0	0	1	O	C	1	0	0	0	0	0	0
9	0	0	0	0	0	٥	0	0	0			0	0	0	٥	0	1	0	0	0	0	0	0	0	0
10	0	0	0	0	0	٥	0	0	0	0	0	0	0	,	0	o	0	0	0	0	1	0	0	0	0
11	0	0	0	0	0	0	0	0	1	0	0	0			0	0	0	0	0	0	0	0	0	1	0
12		1	0	0	0	0	1	3	3	4	3	3	2	2	2	4		1	3	1	10	4	2	i	- 2
13	1	1	1	1	1	2	2	3	4	3	2	3	4	2	2	2	4	4	2	3	3	3	2	2	2
14	2	3	3	2	2	3	3	5	****		3	4	3	2	2	2	2	2	2	2	1	1	1	1	2
15	1	1	1	0	0	0	0	0	0	0	0	3	1	0	0	0	3	1		1	1	1	1	1	1
16	7	1	1	1	- 1	1	1	1	1			0	0	0		0	0	0	0	0	0	0	0	0	0
1.7	0	٥	0	0	0	0	0	0	1	1	2	2	2	2	1	1	1	1	1	0	2	1	0	0	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1		3		1	1	1	1	1	1	1	0	1
19	0	1	1	1	1	2	2	*	1	1	1	1	1	1	1	1	1	1	,	1	1	1	3	1	1
20	1.	1	1	1	1	1	1	1	1	1	1	1	0	0	1		1	C	0	0	1	1	1	1	,
21	0	0	1	0	0	0	0	0	o	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0
22	1	1	0	0	0	1	1	•	1	1	2	2	1	1	1	1	1	1	1	1	2	3	2	1	1
23	1	1	1	2	2	3	3	2	2	2	1	2	2	3	3	3	2	3	3	3	4	3	2	2	2
24	1	2	2	2	2	3	3	3	13	11	5	6	6	7	9	6	**	4	4	4	4	5	4	3	5
25	3	3	2	2	2	2	3	3	3	3	3	5	10	5		3	5	4	4 .		2	1	1	2	3
24 25 26 27	2	2	3	3	2	2	2	3	3	3	2	2	2	2	2	2	2	2	1	1	1	2	1	1	2
27	1	1	1	1	2	1	2	1	2	1	1		1	1	1	1	1	1	1	1		5	1	1	1
28	1	1	1	1	t	1	1	1	1	- 1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1
29	1	0	0	1	0	0	1	1	. 1	- 1	1	1	1	1	1	1	1	1	1	1	1	5	1.	1	1
30	1	1	1	1	٠	1	1	1	****	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	1
MEAN	1	1	. 1	1	1	1	1	1	2	1	i	1	1	4	ž	1	,	1	1	3	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.8 FERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- . 2. "." INDICATES DATA IS UNAVAILABLE
  - 3. " " INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	DLLUTA	INT -	SULP	HUR D	OXID	E							UNIT	s - o	.01 PA	RTS/M	ILLIC	N						
	S	TATION		C NO	3400	7	BATHL	RST/W	ILSON	, NO	TH YO	RK				MON	ιтн -	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	0 2 0 1	0 2 0 1	0 0 0 1	0	0 1 1 1	0 1	0 1 0 1	0 1 1 1	0 0 1 1 2	0 1 1 3	1 0 1 3	1 0 1 3	1 1 1 1 2	0 1 3 1	0 4 1	1 1 5 2 1	1 0 7 2	1 0 5 2	1 0 1 2 1	1 0 0 3 1	1 0 0 3 1	0 0 2	0 0 2	2 0 0 1	1 1 1 1 1
6 7 8	0		0	••••	::::	::::			!		::::			7		2		2		!	!	!			
10	0	0	0	0	0	0	0	0	0	1	0	1	4	3	2	6	3	2	1	3	4	2	0	1	1
11 12 13 14 15 16 17 18 19	100010000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0	0 0 0 1 0 0 0	100010000	0 1 0 0 0 0 0 0	0000-0000	0002100010	0000010010	000010010	0005010140	0 0 6 1 0 0 1 1 0	0002100110	0 0 0 0 1 0 0 1 0 0	00000000	0012100000	00000-00000	000400-000	0005011000	000000000	00000000	0000000000	00002-00000	000000
21 22 23 24 25 26 27 28 29 30	00.0010000	00.00000	000000000000000000000000000000000000000	0.0000	00.000000	00.0000000	00.000000	00.000000	00.0101000	00.0101000	0 0 1 0 0 0	00.01000	0 0 0 1 0 0 0 0	1 1 0 0 1 0 2 0	1 3 2 1 0 1	1 2 0 3 1 0 1	1103102010	0301101000	0 3 0 1 1 0 0 0 0	0 1 0 1 1 1 0 0 0 0	0 0 0 1 1 1 1 0 0	0 1 1 0 0 0	0.010.00	0.00-00000	0 1 1 0 0 0 0
31	0	0	0		0	0	1	i	1	1	1	υ	0	1	3	2	•	1	1	0	1	3	٥	0	ľ
MEAN	Q	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	7	1	0	0	0.5

PERCENTAGE OF DATA VALID - 92.5 PERCENTAGE OF DATA INVAL:D - 4.4

PERCENTAGE OF DATA UNAVAILABLE - 3.1

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . 0.01 PARTS, MILLION

	ST	ATION		NO	3400	7	BATHU	RST/W	LSON	. NOR	TH YO	RK				MON	in -	ΔUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 1 0 0 0 1 1 1 1	0-000-0000	0 1 0 0 0 0 0	000000100	000000	0000000	0000102200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 1 1 2 1 0 0	1 0 0 4 1 1 1 0 0	1 0 0 4 1 2 1 0 0	1 2 1 0 5 1 2 1 0 0	1 2 1 1 3 	1 1 0 2 1 1 7 0 0	0 2 1 0 0	1 1 0 4 1 2 1 1 0	0 4	0-02	1 0 1 1 1 1 0 0	1000	0 0 0 1 0 1 1 0 0	1000101100	0000-0-000	0 0 0 1 0 1 0 1 0	1 0 0 2 1 1 1 0
11 12 13 14 15 16 17 18 19	0 0 0 1 1 1 1	0 0 1 1 0 0 1 1 1	0 0 0 1 1 1 1	0 0 1 1 1 1 1 1 1 1 1 1 1	2000211011011	1 0 0 2 1 1 1 0 1	0 0 0 2 1 1 1 1 1 1 2	0 0 1 2 1 1 2 1 2	1 0 1 1 0 1 2 1 2	0 0 1 1 1 0 1 2 1 2	0 1 1 0 1 2 1 2	1 0 1 3	1 1 1 0 1 2	1 1 2 1 1 0 1 2 1 1	2 1 0 1 3 1 1	1 4 1 1 0 1 3	5 1 2 1 1 3 1 1	1 1 2 1 1 2 2 0	1 1 2 1 1 1 2 0	1 1 2 1 1 1 1 0	1 2 1 1 1 1 1	1 1 1 0 1 0 1 1 0 0	0 1 1 0 1 1 1 0 0	0011	1 1 1 0 1 2 1 1
21 22 23 24 25 26 27 28 29	0 0 0 0 2 1 1 0 0	000000000000000000000000000000000000000	0 0 0 1 1 1 0 0	000001000	000000000000000000000000000000000000000	0 1 0 0 1 0	0 1 0 0 1 1 1 1 1 0 0	1 1 0 0 2	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 2	1 2 0 1 0 2 2 1 1 1 2	0 2 2 1	1 2 0 1 1 1 2 1 1 0 0	0 1 2 1 1 1 1	1 1 0 : 2 2 1 1 1 0	1 1 1 5 3 2 1 1 0	111022110	0 1 1 2 2 1 1 1 1	0 1 1 2 2 2 2 0 0 1	0 1 1 1 1 1 0 2 1	0 1 0 1 1 0 0 0 1	0 0 0 1 2 1 3 0 0 1	0 0 0 1 2 1 1 0 0 1	0 0 0 0 2 1 1 0 0 1	0 1 0 1 1 1 1 1 0 0
31 Mean	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	3	0	1	1	0	0	0	0	0	0 0.8

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANI	r - s	SULPHU	R DIO	XICE							ı	JNITS	- 0.0	1 PA	RTS/M	LLIO	N						
	STA	TION -	. с	NO S	34007	В	ATHUR	ST/WI	LSON.	NOR	TH Y01	RK				MON	TH - 5	EP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 1 1 2 0 0 1 1	0 0 0 1 1 0 0 0 1 1	0 0 1 1 0 0 0 1 0	0 0 0 0 1 0 0 1 0	000-000020	000100000000000000000000000000000000000	0 0 0 1 1 0 0 0 3 0	0 1 0 2 1 0 0 0 3 1	0 4 1 2 1 0 0 0 4 0 •	030210003	0 1 0 0 2 3 0	0002100230	0 0 0 2 1 0 0 3 3 0	0 0 0 2 1 0 0 3 1 0	0002100310	1032000110	20520000	1 5 2 1 0 0 7 0	0 0 5 3 0 0 0 4 0 0	004.000300	0023000200	0022000000	0 0 1 2 0 0 0 1 0 0	0 0 1 1 0 0 1 0 0	0 0 1 2 1 0 0 2 1 0
11 12 13 14 15 16 17 18 19	0 0 0 0 1 0 0 1 0	00000000-0	0 0 0 0 3 0 0 1 0	0000021020	100000000000000000000000000000000000000	1 0 0 0 1 1 0 1 1	2100021011	2000.21014	0 1 0 0 1 0 0 1 4	0100011003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 2	0100000101	0 1 0 0 1 0 1	0 - 300 - 0 - 0 -	0 1 0 1 1 1 1	0 1 0 0 0 0 0 1 1 1	0 1 5 0 0 3 0 1 1 1	0 1 0 1 1 1 1 1	0100230110	0100510210	0 0 0 0 2 1 0 2 1 0	0 0 0 0 1 1 0 1 1 0	10000	0 1 2 0 1 1 1
21 22 23 24 25 26 27 28 29 30	0 0 0 0 1	00000-000-	0 0 0 0 0 0 1 0 2	000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000014	0001100014	00001100013	00100013	0 0 0 1 0 0 1 1 4	0001200114	0201400216	0 6 0 1 2 0 0 2 2 4	60040-224	120080012	1 0 0 5 1 0 1 3 4	1 2 0 0 2 0 0 7 3	1 2 0 0 1 0 0 0 2 3	0001100023	0 0 0 1 2 0 0 0 3 4	0001200024	0 0 0 1 1 0 0 0 2 2	0001100024	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN	0	٥	٥	0	0	٥	1	4	1	1	1.	ï	1	1	1	- 1	2	ï	1	1	4	1	U	1	U.7

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE . 0.6

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCREES ERANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O CT PARTS MITTION

HOUR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	23 24 MEAN
DAY	
1	
11 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 0
15	0 0 0
21	2 1 1 2 2 2 1 1 1 0 0 1 1 1 0
31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

PERCENTAGE OF DATA VALID - 89.4 PERCENTAGE OF DATA INVALID - 9.7

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	* 5	SULP	HUR DIO	XIDE							- 1	INITS	- 0.	01 PA	RTS.M	LLIO	N						
	STA	TION -	C	NO	34007		BATHUR	ST/WI	LSON.	NOR	TH YO	RK				MON	TH - N	VOV	80						
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 10	0 0 3 4 0 0 0 0 0 0 0 0 0	33000	0132001000	01-1001000	0 0	0122000000000	33001000	0 1 3 2 0 0 1 0 0 0 0	0232002000	0 1 3 1 0 0 2 0 0 0	0 1 4 1 0 0 1 0 2 0 0 0	0 1 4 1 0 0 0 1 0 2 0 0 0	0 1 4 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	5.002010	1 1 5 1 0 0 4 1 0 0 0 0	5000031		50002200	0 1 5 0 0 0 1 2 0 0	00400000 45	033000118	3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03300000000	333000000	0 1 4 1 0 0 1 0 1 0 0 1
13 14 15 16 17 18 19	2 1 0 0 3 0 1	3 1 ** 0 0 5	1 0 4 0 0 2	3 1 2 0 5 0 0 2	3 1 3 0 5 0	3 0 6 0 0 1	2 0 4 0 1 1	0 2 1 2 0 4 0 1 1	30104000	5	0 0	0 0 1 0 0 2	220001002	0 0 1	3 0 0 1 ••••	3 0 0 1	0	3 1 0 1 	1 1 1 0 0	3 1 0 1 5	2 1 0 0 0 3	200002	0 0 2 0 1 0 3	0 0 2 0 2 1 3	3 1 1 0 2 0 0 2
21 22 23 24 25 26 27 28 29	301	3 0 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 2 2 0 0 1 0 1 0	3001010	4 0 1 3 0 0 2 0	4 0 1 3 0 1 2 0 0 0	5 1 2 2 0 1 1 0 0 0	6232011100	4 1 5 1 0 1 0 0	2 1 7 1 0 0 1 1 0 0	6 1 0 0 1 1 0 0	0 0	9 1 0 0 1 1 0 0	1 7 1 0	1 6 1 0 0	6 1 0 0 0 0 1	5 1 0 0 0 0 0 1	5 1 0 1 0 0 0 1	0 1 5 0 0 1 0 1	0 1 3 0 0 1 0 1	0 1 3 0 0 2 0 1 0 2	0150010101	0 1 4 0 1 0 1 0 1	0 1 3 0 1 1 0 0 0 0 2	2 1 4 1 0 1 1 1 0 0
MEAN	1	1	1	1	•	Ť	1	1	1	1	,	1	¥	1	1	1	. 6	1	3	*	1	Ţ.	9	-6	1.0

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID . 1.4

PERCENTAGE OF DATA UNAVAILABLE - 0.8

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - C.C' PARTS/MILLION

	STA	TION -	C	NO	34007	0	BATHL	RST/W	ILSON.	NOR	TH Y	CRK				MON	TH -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	. 9	10	1 1	. 12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1		1	1	1	ĭ	1	1	1	1	1	1		0	1	1	1	1	1	1	2	1	1	1	1	1
2		1	o	٥	٥	0		1	2	2	2	1	2	3	2	3	3	2	2	2	0	0	0	0	1
3	o	0	ŏ	ō	ō				ō	ā	ō	0	0		1	0	0	1	0	0	0	0	0	0	0
4	ī	ō	ō	ō	٥	a	0	1	1	0	0	O		0	0	0	0	- 1	1	1	2	- 1	1	1	0
5		2	ĭ	2	1	1	ĩ	2	2	2	1	1	1	1	1	1	2	2	3	3	4	4	3	4	2
Ä	4	3	À		5	4	3	2	3	2	2	2	1	1	1	1	1	1	1	1	1	1	t	1	2
ž		ĭ	7	1	- 1	- 1	ĭ	ō	ō	1	ī	- 1	1	1	1	0	1	- 1	1	2	2	2	2	3	
À	3	2	•	3	3	3	3	3	3	3	4	2	3	5	2	2	2	2	2	2	ī	1	2	1	3
•	ž	2	ĭ	1	ī	- 7	ī	2	5	2		- 1	- 1	1	2	2	2	- 1	1	1			1	1	2
10	3 2	2	-1	1	i	1	1	ī	ĭ	1	1	1	1	,	***	O		****	0	1	٥	ŧ	1	1	1
1.1	1	0	٥	1	2	3	3 -	5	5	2	0	0	0	0	0	0		1	1	1		-		1	1
12	1	1	1	1	1	2	2	3	4	4	4	2	2	2	2	2	2	2	2	1	1	0	0	٥	2
13	0	0	٥	0	0	0	0	0	0	1		1	1	1	1	1	1	0	1	1	1	1	1	,	1
14	1	1	1	1	1	1	1	1	1	1	1	1	0	0	o	U	U	U	1	3.1	1				1
15	1	1	1	1	1	1	2	2	1	1			1	2	4	4	4	3		3	2	2	2	2	2
16	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1.
17	ī	1	7	1	1	ī	1	1	1	ï	1	2	3	1.1	4	3	5	4	4	6		12	12	4	4
1.8	2	1	1	2	2	1	1	1	î	1	1		1	,	1	1	1	1	1	0	1		*	-	1
19	ī	i	•	1	1	1	1	1	1	i	0	1			0	0	- 1	1	1	1	1	- 1	1	0	1
12 13 14 15 16 17 18 19	1	1	1	1	,	1	1	2	2	i	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1
21	1	0	٥	1	1	٥	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1
22	1	1	1	1	2	2	2	2	3	3	3			2	3	2	1	1	1	1	2	2	2	5	2
23	9	7	7	8	1.1	11	11	11	8	7	4	4	4	4	3	3	2	2		1	1	1	1	1	5
24	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0 2	0	0	0
25		0	o	0	1	1	1	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	1	2	0
26	2 2 5	1	0	0	1	1	1	1	1	1	1	2	2	2	2	2	1	2	2	2	2	2	2	2	1
27	2	2	2	2	2	3	4	5	4	2	2	2	1	0	0	0	1	0	0	1	1	1	2	2	2
28	-2	3	3	4	4	3	4	4	6	5	6	7	5	4	4	4	4	4	5	5	5	5	5	5 .	4
29	5	5	5	5	5	3	2	1	1	1			1	1	1	1	0	1	0	0	0	0	0	1	2
21 22 23 24 25 26 27 28 29	1	1	1	2	1	2		2	1	1	1	1	1	0	0	٥	1	1	1	1	1	1	2	2	1
31	1	1	1	1	3.	1	1	1	1	1	1	1	1	1	1:	٥	1	0	0	٥	0	٥	0	*:	1
MEAN	2	1	1	2	2	2	2	2	2	2	1	1	4	2	1	1	1	1	1	1	1	2	2	2	1.5

PERCENTAGE OF DATA VALID - 96.0 PERCENTAGE OF DATA !NVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

ATION -	C NO	34007		BATHURST/WILSON.	NORTH	YORK				
MONTH		NO	OF	DAYS	AVERAGE	CONCENT	24-HOUR	MAX   MUM	MAXIMUM	READING
JAN			31	ı	0	. В		2	6	
FEB			29	•	1	. 0		3	7	
MAR			31	Ĺ	1	. 1		5	11	
APR			30	<b>)</b>	0	. 8		3	16	
MAY			3	Ĭ	1	. 0		5	38	
JUN			30	•	Î	.0		5	13	
JUL			26	ı	0	. 5		2	7	
AUG			3		0	. 8		2	7	
SEP			30	)	0	.7		3	14	
QCT			28	3	0	. 5		2	6	
NOV			30	•	1	. о		4	9	
DEC			3	<u>.</u>	1	. 5		5	12	
						_		_		

<sup>&</sup>quot; - " INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES SKANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

																					5.30	200				
STATION -	¢	NO	340	07		BAT	HURS	1/1	ILS	ON.	NO	RTH	YOR	ĸ												
MONTH	00	TO	05	06	to	10	11	TO	15	16	TO	20	21	TO	25	26	то	39	40	TO	49	50	401	/ER	TOTA	ĭ.L
JAN		7	27			1			0			0			c			0			o			0	7	726
FEB		6	72			2			٥			0			0			٥			0			0	6	74
MAR		7	121			12			1			0			0			0			0			0	7	34
APR		7	703			3			0			1			0			0			0			0	7	707
MAY		7	713			4			0			1			1			1			0			0	7	20
JUN			98			6			2			0			0			0			0			0	7	06
JUL		•	84			4			0			0			0			0			0			0	6	88
AUG		7	24			1			0			0			0			0			0			0	7	25
SEP		7	06			6		a	1			0			0			٥			0			0	7	13
OCT		6	63			2			0			0			0			0			0			٥	6	65
NOV		6	94			10			٥			0			0			0			0			0	7	04
DEC		€	97			10			7			0			0			0			0			٥	7	14
YEAR		84	02			61			11			2			ï			1			0			0	84	78

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID
MIN
10
30
FREQUENCY DISTRIBUTIONS
FREQUENCY DISTRIBUTIONS
90
95
98
99
MAX
MEAN
96.5
0
0.0
0.0
0.0
0.2
0.7
1.8
2.7
3.9
4.9
38
0.9

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANI		SULP	OR DIC	XIDE								UNITS	• 0.	OI PA	RTS/M	ILLION	N.						
	STA	TION -	c	NO	35003	)	ELMCRE	ST RO	AD.	ETOBIC	OK E					MON	тн -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0100000000	0000003100	0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0001003000	0 0 0 0 0 1 1 0 0	0001001000	0001000000	0 0 0 0 0 0 1	0 0 0 2 0 2 0 0 0	0 0 0 2 0 5 1 0 0 10	22 0 22	0 0 1 0 5 0 1 1 1	0 0 1 0 2 0 1 0 2	0 0 0 1 0 1 1 0 2	0 0 0 0 0 1 0 1	000000000000000000000000000000000000000	0000050100	000000-000	00000000	0 1 0 1 0 0 1	00000000	0 0 0 0 0 0 0 0 1	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	1002011000	1002	200000000	0 0 1 1 0 0 0	000000000000000000000000000000000000000	1 0 1 2 0 0 1 0 0 0	1022001000	1012011000	1011077000	1 0 1 1 0 3 2 0 0 0	0 0 1 1 1 3 2 0 0 0	1 1 4 1 0 0 0	00	0 1 4 3 1 0 0	3 3 1 1 0 0	1 2 0 0 0	32000	0000	00-004-000	00000	00 1004 - 000	00 40 - 40000	000013000	0020110000	1 0 0 0 0 0
21 22 23 24 25 26 27 28 29	0 0 0 1 0 1 0 1	0000000-0-	00000000	0000000	001000000000000000000000000000000000000	00000000	000001002	0 0 0 0 0 0 1	0100100001	0 1 0 0 0 0 0 0 0	0 0 0 1 0 0 0	0 1 0 1 0 0 1 1 1	0 1 0 0 1 2 1	0	0 1 1 1 0 0 1 1	0 1 0 0 1 0 1 1 2	0 1 0 0 0 0 0 2	0 1 0 0 0 1 1	010010000	0000-0000-	000001000	0000001000	0000000000	000000-0-0	000000000-
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	o !	0	0	0	1	0	0	0	0	0	0	0	0	ن 0.5

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE . 0.1

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

POLLUTANT - SULPHUR DIOXIDE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	-06	EG I MIT		OCF	104 010	~105							Sec. 10.											
	STA	TION -	С	NO	35003	E	LMCREST	ROAD.	ETOB	COKE					NON	тн - 1	FEB	80						
HOUR	1	2	3	4	5	6	7	В 9	10	11	12	13	14	15	16	. 17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6	0 0 1 1 0 1 0	1 0 0 1 0 0 0	0100000	000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000010	0	0 0 0 0 0 0 0 0 1 0 1 0 1	0 1 0	1 0 0	1	0 0 1 1 3 1 0	0 1 2	0 0 1  5	3 0 0	0 0 1	0 - 20 0 0 0 0	1 0 1 0 0	1 2 1 0 1 0 0	1 1 0 1 0 0	1 1 0 0 0	0 0 1 1 1 0 0 0 0	0 2 0 0 1 0 0	0 0 1 0 0
8 9 10	0	0	0	0	0	0	0 0 4	0 0	2 0 2	1	1	1 2	0	0	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19	0 0 2 0 1 1 2 2 5	10002011124	1002000124	1 0 0 2 0 1 0 1 3 3	1 0 3 0 1 0 2 4 3	1 0 0 2 0 1 1 1 4 3	0 1 2 0 1 0 2 4	1 1 0 0 0 1 2 2 0 0 1 2 0 0 1 1 4 3 3 4	1	1 1 2 2 1 2 3 2	2 1 2 2 2 2 2 3 2	20322333	200000000000000000000000000000000000000	: 0 1 0 2 1 1 2 3	0	1010210221	0 1 0 2 3 1	1 0 1 1 1 2 1	1010111120	0020121220	0 2 0 1 1 2 2 0	1 1 2 4 0	0020111251	0 1 1 1 1 2 3 2
21 22 23 24 25 26 27 28 29	0 0 0 2 0 0 1 1 0	0-00000000	00010000	00000000	00000000	000000000	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	00000	0 1 0 1 0 0 1	1000	ō	0 0 0 0 0 0 1	000000000000000000000000000000000000000	00000000	0 0 3 1 0 0 0 3 3	0 0 3 0 0 0 1 2	104000000	2 0 3 0 0 0 0 0 2 0	1 0 3 0 0 1 1 1 0	1 0 2 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN	1		0	0	1	1	1	1 1	1	1	1	1	1	1	1	1	-1	1	1	1	1	1.	1,	0.7

PERCENTAGE OF DATA VALID - 96.4 PERCENTAGE OF DATA INVALID - 3.3

PERCENTAGE OF DATA UNAVAILABLE . 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUT.	ANT -	SULP	HUR D1	OXIDE								UNITS	- 0.	01 P#	RTS/K	ALLLIC	N			30			
	SI	01TA	N -	C NO	35003	3	ELMCF	REST A	ROAD ,	ETOB	COKE					MON	ITH -	MAR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	0 2 2	0 2 0 1 2	0 2	1 0 1	0 1 0 1 2	0 0 1 3	0 0 0 1 2	0 0 1 2	0 0 1 2	0 1 0 2 2	0 0 2 3	0 1 2 3	1 1 2 3	0 0 1 2 2	0	0 1 2 1	2	0 1 1	0 1 1	0 1 1 0	1 0 1 1	0	1 0 1 2 0	2 0 1 2	0 0 0 1 2
6 7 8 9	1 2 0	2 1 2	0 1 1 2 3	1	0 1 2 2	1 1	1 1 1	1 1	1 2 1 1 2	1 1 1 2	1 1 2 3	1 1 2 3	1 0 2 3	1 0 2 3	1 2 3	1 0 2 2	2022	0 1 2	1 2 0 1	2 0 2	1 2 1	2 3 1 2	0 1	0 2 0	1 1 2 2 2
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PERCENTAGE OF DATA VALID - 91.1 PERCENTAGE OF DATA INVALID - 8.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	S	TATIO	N -	C NO	3500	3	ELMCR	EST	ROAD.	ETOBI	COKE					MON	тн - ,	AFR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	000	0000		0		0			000	0 0 0 1 3	0 0 0 0	0 0 0 4	0000	0000		00000	7 2 0 0 0 0	0000	0 0	0 0 0	0 0 0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	0
8 9 10		0	0	••••	0		0	0	0	0	0	1	2	2 0	3	0 3	0	0	0 0 0	00000	0	0	0		0 1 0
12 13 14 15 16 17 18	000000000	00000		000	0 0	0	00000000	0000000	0 0 0 0 0	000000000000000000000000000000000000000	00000102	00000000		0000	0 0 0 0 2 2	00000012	0.0000022	00000000	0 0 0 0 0 0 0 1 1	00000001		0.000	00000101	0000000	0 0 0 0 0 0 1 1
20 21 22 23 24 25 26 27 28 29		1 1 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000		0000000	1 1 0 0 0	0 1 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0	0	1 00 00 00 00		110.00000	1000000	1	2 100.00001	1 0 0 0 0 0	30.001000	20.000000	2 0 0 0 0 0 0 0 0	20.000000	10000000	000000	0000000	000000000000000000000000000000000000000	0 0 0
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PERCENTAGE OF DATA VALID - 90.1 PERCENTAGE OF DATA INVALID - 8.2

PERCENTAGE OF DATA UNAVAILABLE - 1.7

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	ANT -	SULP	HUR D	01x01	E							UNIT	s . o.	01 PA	RTS/M	ILLIC	N						
	ST	ATION	•	C NO	3500	3	ELMCRES	T RO	DAD.	ETOBI	COKE					NON	тн -	MAY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 1	000000000	000000000000000000000000000000000000000		0000000	0 0 1 0 0 0 0 0 0 0	100000000	000001000	000000000	000000000	0000000100	0000	00000	000100000	0 0 0 0 0	000100000	10000	000100000	0000100000	0000000000	000000000	00000000000	0000000001	000000000	000000000
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21 22 23 24 25 26 27 28 29	0000		0000	0000	0000	0000	000000000000000000000000000000000000000	1000000.	1 1 0 0 0 0 0 0 0	0 0	0000	000	1 3 0 0	1 3 0 1	5 1 0	3 1 4 1 0	2 1 0	1 0	1 0	1 1 2 1 0 0 0 0	1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00100	2 1 1 0 0 0
30 31 MEAN	0	0	0	0	1 0	0	0	1 0	1 0	1 0	3	1	1	3 2 0	0	3	0	1	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 93.8 PERCENTAGE OF DATA INVALID - 5.8

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. . . INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS . 0.01 PARTS/WILLION POLILITANT - SULPHUR DIOXIDE MONTH - JUN 80 STATION - C NO 35003 ELMCREST ROAD, ETOBICOKE 12 13 14 15 16 17 22 23 24 MEAN HOUR 6 7 8 9 10 11 00000-0-00 0000---000 1 2 3 4 5 6 7 8 9 10 000000000 0000000000 0 0000000 000 0 2 11213141516171819 0 033-0072-0 3 1 0 2 3 000-003 0331002110 032000 0010000100 00-0000-00 0011 03120 000-0000000-00 00-0 0 1 000-00 0001 000-... 000 00 0 5 2 2 0 0 0 3 4 10 6 1 0 01232100 03255200 032.620 0434 0 21 22 23 24 25 26 27 29 30 0 04254 338 000-0 00000 001101 00000-00 5 0 0

PERCENTAGE OF DATA VALID - 92.4

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MEAN

PERCENTAGE OF DATA INVALID - 7.4

PERCENTAGE OF DATA UNAVAILABLE - 0.3

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NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

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-- INDICATES DATA IS UNAVAILABLE

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3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	NT -	SULP	UR DI	OXIDE								UNITS	- 0.	Q1 PA	RTS/M	ILLIO	N							
	ST	ATION		C NO	35003	i.	ELMCR	EST R	OAD,	ETOBI	COKE					MON	тн -	JUL	80							
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PERCENTAGE OF DATA VALID - 90.6

PERCENTAGE OF DATA INVALID - 8.7

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION		NO	3500	3	ELMC	REST	ROAD.	ETOB	I COKE					1.OM	th -	AUG	80							
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13 14 15 16		0	0		0	0	0	0			0		0	0	0	0	1	1	0	0	0	0	0	0		0
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PERCENTAGE OF DATA VALID - 94.2 PERCENTAGE OF DATA INVALID - 5.4

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POLI	UTANT	-	SULPI	IUR D	OXID	Ē							UNIT	s • o.	01 PA	ATS/M	11110	N						
	STAT	ION -	C	NO	3500	3	ELMCR	EST RO	AD.	ETOB10	COKE					NON	TH -	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
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11 12 13 14 15 16 17 18 19	0000000000	0000010000	0000000000	000000000000000000000000000000000000000	000000000	00-0000000		000000	0 0 0 0 0 0 0	00000	0 0 0 0 1 0 0 0 1	0 0 0 0 1 0 1 1 1	1 0 0 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 8 1 0	000051	0 0 1 0 3 1 0 3 1	0 0 0 0 0 2 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000-0000	0010000000	0000000000	0000000000	0:000	0 0 0 1 0 0 0 1 0
21 22 23 24 25 26 27 28 29		0000.000-0	0000 100000	00000	000000	0 0 0			0000-2	000000012	0000002	000000011	0000	0000	0001000243	0 0 0 1 0 0 1 6 .	1 0 0 1 4 4	1 0 0 0 0 2 2	000000000000000000000000000000000000000	100000000	100000000	1000000011	1000000000	000000001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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PERCENTAGE OF DATA VALID - 95.7

PERCENTAGE OF DATA INVALID - 3.8

PERCENTAGE OF DATA UNAVAILABLE . 0.6

- " -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O OF PARTS MILLION

	S	TATIO	ν -	С	NQ	35003	ı	ELMCR	EST	ROAD.	ETOB	COKE					NON	тн •	OCT	80						
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MEAN	0	0		0	0	0	0	0	0	0	0	0	1	1	1	i	1	1	1	0	٥.	٥	0	0	0	0.4

PERCENTAGE OF DATA VALID - 96.0 PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUTA	NT -	SULP	HUR D	OXIDE								UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	51	ATION		C NO	3500	3	ELMCR	EST RO	DAD,	ETOBI	COKE					MON	тн -	NOV	80						
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	<b>†9</b>	. 20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 4 1 0 0 0	0 1 0 2 0 0 1 0 0	0 0 1 1 0 0 1 1 0	011001111111111111111111111111111111111	0 1 0 0 1 0 1	0 0 1 0 1 0 1	0 0 1 1 0 0 0 1 1	0 0 2 1 0 0 1 0 1	0 0 2 1 0 0 1	0 0 2 1 0 0 1	0 0 2 1 1 1 1 0 1	1 0 2 1 0 1 1 0 1	0 1 3 1 0 1 1 1	0 0 4 1 0 1 2 1 1	0 0 3 1 0 - 2 1 0	0 1 2 0 0 1 2 1 1	00000-00	002000110	002001110	000000000	0000000	300000	1 0 3 0 0 1 0 0 0	0 1 4 0 0 1 0 0 0 0	0 0 2 1 0 0 1
10 11 12 13 14 15 16 17 18 19 20	0 0 2 1 0 0 1 0	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0	1 1 0	0 0 0 1 1 0 0 0 0 0 0 0	0 0 0 0 0 0 1	0 0 1 1 0 0 1 0	0 0 0 2 1 0 0 0 2 0	0 0 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1 0 1 1 1 1 1	0	1 1 1 0 1 DATA	0 0 0 1 1 1 1 1 1 1 1 1	0	1 0 1 1 1 1 1 1 2	0	0 1 3 1 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1	0 2 4 1 1 0 0 0 1	0 1 4 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1	0 0 2 1 0 2 0 1	0 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
21 22 23 24 25 26 27 28 29	201210000	2 0 0 0 0 1	20012220011100			4 0 1 1 0 1 0 1 0	3 0 1 1 1 1 0 1 1 1 1 0 0	3 0 2 1 1 0 1 0 1 0	2031101000	1 0 4 1 1 1 0 1 1 1 0 1 1	1 1 5 1 0 1 0	1 5 1 1 1 0 1 0	1 4 2 1 1 1 0 0	1 5 1 1 1 0	0 1 4 1 1 0 0 0 1 0 0 0 1 0	1 1 0 0 0 0 0	0 1 4 1 1 0 0 0	0 1 3 1 0 0 0 1	0 0 0 0 0 0 1	30000001	0 1 2 0 1 0 0 0 0 1	1 1 2 1 0 0 0 1 0 1	1 0 1 0 1	0 1 3 1 0 0 0 0 0 1	33 11 10 10
MEAN	1	1	1	1	1	1	1	1	1.	1	1	1	1	1	ī	1	1	1	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 91.8 PERCENTAGE OF DATA INVALID - 7.4

PERCENTAGE OF DATA UNAVAILABLE - 0.8

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O AT PARTS MILLION

	STA	TION	. с	NO	35003		ELMCRE	ST RO	AD.	ETOB10	OKE					MON	εтн -	DEC	80						
HOUR	ì	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9 10	0000	1 1 0 0 0 1 2 1 1 1	1 1 0 1 1 3 1 1 0	1 0 1 0 1 0 3 1 2 0	000000000000000000000000000000000000000	10000104110	1 1 1 1 3 1 0 0	1 1 0 1 2 1 0 0	0 1 1 1 1 1 0 0	0 1 1 0 1 2 1 1 0 0	0 2 1 0 2 2 1 1 0 0	1 1 1 1 2 1 1 0 0	1 1 1 1 1 0	1 1 1 1 0	1 2 1 1 3 1 1 2 0	1 1 0 0 0 2 1 1 9 0	0 1 1 0 3 2 1 1 5 5	0 1 1 0 3 2 1 1 4	1 0 0 3 1 0 1 2 0	0 1 0 2 1 1 0 0 1 0	1 0 0 1 2 1 1 1 1 - 0	1 0 0 0 1 1 1 1 1 1 0 0	0001	1 1 2 1 2 0 1	1 1 1 0 2 1 1 1 0
11 12 13 14 15 16 17 18 19	1000010200	000000100	0000000000	0100010200	000000000000000000000000000000000000000	0 0 0 0 1 0 1 0 0	0 0 0 0 1 1 1 0	0 0 0 1 1 1 0	100000000	0 0 0 0 0 0 0	0 2 1 0 0 0 1 1 0 0 0	1 3 1 0 0 0 0 0 1 0	0 0 0 1 1 0	0 1 4 1 . 0	0 1 0 1 6 1 0 0	0 4 1 0 3 1 4 1 0 0	0200212000	200000	0 1 0 0 0 0 0	0 1 0 0 0 1 2 0 0 0	0000	0000	00011100	00:00:00	0100101100
21 22 23 24 25 26 27 28 29	0 0 4 3 0 1 1 4 1	0 1 5 3 0 0 1 1 5 2	0 5 3 0 1 1 1 4 2	0 0 6 3 0 1 2 1 4 2	0 1 6 2 0 1 1 1 3 2	0 1 5 2 0 1 1 3 2	0 1 5 2 0 2 1 2 2 2	0 0 5 2 0 2 1 1 2 2	0 1 4 1 0 1 1 1 2 1	1 2 4 1 0 1 1 3 2 1	0 1 3 1 0 1 2 4 3 1	0 1 4 0 0 2 2 4 2 1	0 3 3 0 0 2 2 4 2 1	0 0 2 2 4 1	0 3 3 0 0 0 2 1 4 1 1	0 3 3 0 1 2 1 4 1 0	0220011310	0 2 2 0 0 1 1 3 1 0	0 0 0 1 1 3	0210011410	0 1 2 1 0 1 1 4 1 0	0 1 3 0 1 1 1 4 4 1 1	0 2 2 0 1 1 1 4 1 0	0320111410	0 1 1 3 2 1
31 MEAN	0	0	2	0	0	0	1	1	1	1	1	1	1	1	0	0	1	0	0	1	0	1	0	1	0

PERCENTAGE OF DATA VALID - 96.8 PERCENTAGE OF DATA INVALID - 1.6 PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ".... INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C	NO 35003 ELMCREST F	ROAD. ETOBICOKE .		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.5	2	22
FEB	29	0.7	3	5
MAR	28	0.6	2	11
APR	27	0.3	2	7
MAY	29	0.4	2	5
JUN	28	0.7	3	13
JUL	27	0.7	2	13
AUG	30	0.4	1	5
SEP	30	0.4	2	21
oct	29	0.4	1	4
NOV	28	0.7	3	5
DEC	31	0.9	4	9
YEAR	347	0.6	4	22

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C	NO 3500	3 ELMCRE	ST ROAD, E	TOBICOKE					
MONTH OC	TO 05	06 TO 10 11	TO 15 16	TO 20 2	1 TO 25 26	TO 39 40	TO 49 50	SOVER	TOTAL
JAN	731	1	0	0	1	0	0	0	733
FEB	671	0	0	0	٥	0	0	0	671
MAR	677	٥	1	٥	٥	0	0	0	678
APR	648	1.	٥	0	0	0	0	٥	649
MAY	698	0	٥	0	0	0	0	0	698
JUN	659	4	2	0	0	0	0	o	665
JUL	668	5	1	0	0	0	0	o	674
AUG	701	٥	0	٥	0	0	0	o	701
SEP	681	7	0	0	1	0	0	0	689
ост	714	0	0	0	0	0	o	0	714
NOV	661	0	0	0	0	0	0	0	661
DEC	716	4	0	0	0	0	0	0	720
YEAR	8225	22	4	o	2	0	0	o	8253

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT
OF DATA
VALID
MIN 10 30 50 70 90 95 98 99 MAX MEAN

94.0 0 0.0 0.0 0.0 0.0 0.3 1.1 1.9 2.9 3.8 22 0.6

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	.UTAN1	- \$	ULPH	R DIO	XIDE							i	INITS	- 0.0	01 PAF	RTS/MI	LLIO	N						
	STA	TION .	c	NO S	5005	Q	ŲE ENS	WAY H	OSPIT	AL E	10810	OKE				MON	TH - L	MAL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
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11 12 13 14 15 16 17 18 19	2 0 1 2 1 0 1 1 1	20131001111	1 0 1 5 1 0 1 1	1 0 1 5 1 0 1 1 1 1	3 1 0 2 1 1 0	1 0 2 2 1 0 2 1 1 1	2 0 2 3 1 0 2 1 1 1	202310211	1 1 2 2 1 0 1 1 1 1 1	2 2 2 1 1 1 1 1 1	2 2 2 3 1 1 1 1 1 1 1	2 2 2 1 1 1 1 1	2 2 1 0 1 1 1 1 1	2 1 2 0 1 1 1 1	2 1 2 1 1 1 1 1	3	3 1 1 1 1 1 1 1 1 1 1 1 1	3 1 1 1 0 1 1 1 1 1 1	1 1 0 1 1 1 1	1 2 4 1 1 0 1 1 1 1 1	1 2 3 1 1 0 2 1 0 1	1 1 2 1 1 1 1 1	1 0 2 1 1 1	1 3 1 0 1 1 1	2 2 1 0 1 1 1 1
21 22 23 24 25 26 27 28 29	1 0 1 1 0 1 0 1	1 1 1 0 1 0 1	1 1 1 1 0 1 0 2	1 1 1 0 2 0 2	1 1 1 1 1 0 1 1 2	1 1 1 1 0 1 0 2	1 1 1 0 0 0 2	1 1 1 2 1 0 1 0 2	0 2 1 1 2 1 1 1 0 1	2 1 1 1 1 1 1 1 1	1 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1	1 2 1 2 1 1 2 1	1 2 1 1 1 1 2 1	0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1	1 1 0 1 1 2 1	0	0 1 1 2 0 1 1 1 0	0 1 1 2 1 0 1 1 1	1 1 1 1 0 0 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 0 0 0	1 1 1 1 1 1 1 1 1
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PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY -

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	s	TATIO	N -	c	NO	3500	5	QUEEN	SWAY	HOSPI	TAL E	товіс	CKE				HON	тн -	FEB	80						*	
HOUR	1	2	E.	3	4	5	6	7	8	9	10	1.7	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
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PERCENTAGE OF DATA VALID - 88.6 PERCENTAGE OF DATA INVALID - 11.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN CHE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE								UNITS	- 0.0	1 PAF	RTS/MI	LLICA	(						
	STA	TION -	c	NO	35005	Q	UEENS	-	OSPIT	TAL ET	0810	OKE			d)	MONT	тн - м	AR.	80						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24 1	KEAN
12345678910 1123451454	1 2 1 3 2 1 1 2 1 1 0 0 0 1 0 0 2	12:22:1211 0010020	1 2 1 2 2 1 1 2 1 2 0 0 1 0 0 .	1 1 0 2 2 1 1 1 1 2 0 0 0 0 0 1	1 1 2 2 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 2 1 1 1 1 2 0 0 0 0 0 1	1 1 2 1 1 1 3 0 1 0 0 0 0 0	1 1 2 1 1 2 1 1 3 0 1 0 0 0 0	1 1 2 2 1 2 1 4 0 2 0 0 0 1	1 1 3 2 1 2 1 1 4 0 2 0 0 0 1	1 1 3 2 1 1 1 4 0 1 0 0 0 0	1 1 3 3 1 1 0 1 3 1 1 0 0 0	3 2 1 1 0 1 3 1 1 0 0 0 0	1 1 2 3 2 1 1 0 1 3 0 :: 0 1 0 0	1 1 2 3 2 1 1 0 1 2 0 : 0 0 0 1	1122212012 0:0001	1122212012 020002	1 1 2 2 1 1 2 0 2 2 0 1 0 0 0 1	1 1 2 2 1 1 1 0 2 0 0 0 1	1 1 2 2 1 2 1 0 2 1 0 2 0 0 0 1	1 1 2 2 1 2 3 1 2 1 0 : 0 0 1 1	222711110000011	2 1 2 1 1 1 1 0 0 0 0 1 1	1 1 2 2 1 1 1 1 2 0 0 0 0 1
16 17 18 19 20	0 0 0 1	0 0 1	0 0 1	0	0 0 2	0 0 2	0	0	3 0 2 5	4 0 2 5	2 0 2 5	0	1 0 1 3	0 1 3	0 0 2 3	3	0 0 5	4 3	2 2	0 1 1 2	0	0 1	0	0	0 1 3
21 23 24 25 26 27 28 29	1 1 0 0 0 0 0	2	1 1 0 0 0 1 0 0	000	2000	2000	1 1 2 0 0 0 1 0	0000	1 2 1 1 1 0 0 0	1 2 1 1 1 0	322200201	3 3 2 1 0 1	1 0 1	1 2 4 2 2 1 0 1 1 1	123121011	1 2 4 1 1 1 0 1 1 1 1	2 2 2 0 1 1 1	1 2 3 2 1 4 0 1 1 1 1	1 2 2 2 1 4 0 1 1 1 1	1 2 2 1 1 3 0 1 1 1	1 2 1 0 1 1 2 1 0	1 2 1 0 1 1 1 1 1 0 0	0 1 0 1 0 0	1 1 0 0 0 1 1 1 0 1	2 2 1 1 1 0 1 1 1 1
31 MEAN	1	1	1	1	1	1	1	1	1	1	1	c ,	. 0	1	1	1	1	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - O.CI PARTS/MILLION

	PUL	LUIL		3017	, O.	UNIDE	•																			
	STA	TION	- с	NO	35005	٠.	QUEEN	SWAY	HOSPI	TALE	TOBIC	OKE				MON	:н - ,	LPE	80							
HOUR	Ĭ	2	3	4	5	6	7	8	9.	10	11	12	13	14	15	1.6	17	18	19	20	21	22	23	24 N	EAN	
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14	0	•	0	1	1	1	1	Ÿ	1	1	·	1		ĭ	ĭ	ĭ	1		ò	ò	ò	0	0	c	1	
15	1	. 1	1	389				ò	ò	ó	ó	ò		- 1		- 1	4		4	7	ĭ	ī	1	1	1	
16	0	0	0	0	0	0	0	·		Ÿ		9	- 1	2		- 1	- 1	- 1		- 9	- 1		2	2	1	
17	0	٥	٥	0	٥	0	0	1	2	4		3	3	5	6	2	-		- 1		- 1	1	ī	7	2	
18	1	1	1	1	- 1	1			1	1	1	2	3	3	š	3	3	À	-		- 1	ż	,	ì	2	
19	3	1	1	1	,	0			2	3	2		3	2	3	2	2	7	- 1	- 1	- 1	7		i	1	
20	2	2	2	1	1	1	1	1	-1	2	2	,	-	2	2	4	•		•		,					
21	1	1	1	1	- 1	- 1	1	t	1	1	1	1	1	1	1	3	1	2	2	1	1	1	1	1	1	
22	1	1		0	0	0	1	1	1	1	1		1	1	1	1	2	1	0	0	٥	0	1	1	1	
22	1	0	o	0	1	1	1	2	2	2	1	Ť	1	1		2	1	1	0	٥	0	0	٥	٥	1	
24	0	o	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1		1	1	0		
24 25	ō	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	2	2	1	,	0	•	• • • •	1	
26											0	0	1	1	1	O	C	0	0	0	0	0	0	0 -	*****	
27	0	0	0	0	0	0	0	0	0	0	1		1	1	0	0	٥	0	0	0	0	0	٥	0	0	
28	ŏ	ŏ	ŏ	ŏ	ō	ō	ō	0	0	0	0	0	0				0	0	0	0	0	0	٥	٥	0	
29	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ					0	0	0	0	0		C	0	0	٥	0	0	0	0	0	
30	o	ŏ	õ	ŏ	ň	ŏ	0	0	0	1	1	1	1	1	0	1	0	1	0	٥	0	0	0	0	0	
		-					_	-		i		1	2	2	2	1	1	1	1	1	•		1	•	0.9	
MEAN	•	4		- 1	1	0	1	1	1	1	1	1	- 2	- 2	- 4			7.5		,	- 3	- 4	•			

PERCENTAGE OF DATA VALID - 97.1 PERCENTAGE OF DATA INVALID - 2.9

PERCENTAGE OF CATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION -	· c	NO :	35005	٥	UEENS	YAN	HOSPI	TAL E	TOBIO	OKE				MON	тн -	MAY	80 -						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 •	16	17	16	19	20	21	22	23	24 K	EAN
	0	1	î	ä		٥	0	0	,	1	1	1	1	1:	1	2	1	1	1	,	1	1	1	1	1
غ خ	ŏ	1	i	i .	i	1	Ĩ	1	2	2	2	5	7	4	3	3	2	1	1	1	1	0	0	0	2
3	ŏ	o	Ó	0	0	1	1	1	1	1	1	1	2	1	1	1	- 1	1	1	1	1	1	1	1	1
4	·	- 7	1	- 7	ī	1	î	î	1	1	1	1	1	2	2	2	1		1	1	1	1	1	1	1
		4	- 1	1		1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
6	- 1	i	i	1	•	1	1		1	0		0	0	1	1	1	- 1		2	2	1	1	1	0	1
7		o	o	0	0	0	٥		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	ŏ	ŏ	ā	0	.0	1	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0
9	0000	0	0	0	0	0	000	0	0	0	0		0	0	0	0	٥	0	0	0	0	٥	0	0	0
10	ō	0	o	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	4	1	1	0	0	1	1
11	ag.	*	1	3.	1	1	1	1	3	3	2	2	2	2	1	1	1	1	1	1	1	1	0	00000	1
12	0	0	0	0	0	0	0	1	1	1	٥		1	1	1	1	0		1	0	1	2.	ŏ	ŏ	'n
13	0	0	0	0	Ų	0	0	٥	0	O	0	U	1	3				•	9	ý	ن	ŏ	0	č	:
14	0	0	0	0	٥	0	0	٥	1	2	2	3	2	1	1	2	!	!	••••	0	0	ö	ő	ŏ	à
15		٥	0	0	0	۰.	••••	•••	0	0	0	0	٥	0	0	0		****		٥	Ü	٠	•	ŏ	ĭ
16	0	٥	0	0	0	0	0	٥	0	0	0	1	6	3	3	3			0	1	- 1	1		·	4
17	1	1	0	0	0	1	1	1	1	1	1	- 1	1	2	2	- 1	1	- 1	٠		1			•	- 1
18	1	1	1	1	1	1		1	1	- 1		1	2	2	2	- 2	-	- !	1	1	- 1	- 1	1		
19	1	1	1	1	1	1	1	- 1	1	1	- 1	1	2	2	1	2	1		2	1	!	- 1		ĭ	
20	O	0	0	0	0	0	0	1	2	3	2	2	2	2	2	2	2		1	7	1			-	
21	0	0	0	0	0	0	0	0	0	0		1	2	2	2	5	11	7	3	2	2	2	2	2	2
22	1	1	1	1	t	1	1	1	2	2	1	2	1		2	2	1	1	2	2	1	1		1	2
23 24 25 26 27	0	0	0	0	0	0	0	1	2	3	2	2	3	3	1	3	3	2	2	2	2	1		Ÿ	
24	0	0	0	0	0	0	0	٥	0	0	1	1	2	3	6	6	3	•	1	1	1	1	1	ò	11
25	1	1	1	1	1	1	٥	0	0	0	٥	٥	1	1	1	- 5		1		1	0	0	0	·	
26	0	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	,	1	1	1	- 1
27	1		1	1	1	1	1	1	1		0	0	1	1	1			2	2	1	3	1	0	٥	
28	1	1	1	1		1	1	٥	1	2	3	3	2	2	1	1	1	3	2	2	2	1	- 2	- 1	1
29	1	1	1	1	1	1	2	2	2	1		1	2	1	1	1	1	1	1	1	1.	1	2	1	
30	2	1	1	1	1	•	. 1	2	2	2	2	2	2	2	3	3	3	3	2	2	3	3	3	2	2
31	1	2	2	2	2	3	3	3	2	2	2	3	4	2	2	2	2	2	1	1	1:	1	1	1	4
MEAN	0	1	1	- 1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	S1	OLTAT	N -	C NO	3500	5	QUEE	NSWAY	HOSP	ITAL	ETOBI	COKE				MO.	NTH -	JUN	80						
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 0 1 1 1 1 1	1 0 0 1 1 1 1	1 0 0 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 1	1 0 1 4 1 2 1	0	1 3 1 1 1 0 2 1	2 3 1 1 2 1 1 1 1	2 3 1 1 1 1 1 1 2 1	2 4 1 1 1 1 2 1	2 3 1 1 2 1 1 1 1 1	1 2 1 2 1 2 1	1 2 1 2 1 2 1	1 2 3 1 2 0 1 1	1 1 3 1 1 0 1 1	1 2 1 1 0 1 1	0 1 1 0 0 1 1	0 1 1 0 1 1 0	0 1 1 0 0 0 1 1	1
10	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19 20	1 1 0 0 0 0 0	2000100	0 1 0 0	0 0 1 0 0	0 0 1 0 0 0	1 0 0	0 1 1 0		1 2 0	: 21 21 00 100	0	0222104200	0 0	2 2 0 0 2 1 0 0	0122002000	3 200200	5 2000	2 4 2 0	0 2 3 1 0 0 2 0 0	0 2 3 1 0 0 3 0 1 1	002011	2 1 0 0 2 0 1 0	0000	0000	2 2 0 0 1 0 0 0
21 22 23 24 25 26 27 28 29	1 0 0 0		···· 1 0		1 0	10000				3	2 0 0 0	••••	••••	INVALID 0	2		4 2 0 0 0 0	 6 2	4 2 0 0 0	2 2 1 0 0 0 1		 2 1 0 0			20000
MEAN	0	1	0	0	0	0	0	1	1	1	ī	1	1	1	1	1	1	1	1	1	- 1	1	1	٥	0.7

PERCENTAGE OF DATA VALID - 84.3 PERCENTAGE OF DATA INVALID - 15.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUTA	NT -	SULP	HUR D	OXID								UNITS	s - o.	01 PA	RTS/M	LLIO	N						
	\$1	TATION		C NO	3500	5	QUEEN	YAWE	HOSPI	TAL E	TOBIC	OKE				MON	тн - ,	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 1 0 0	0 1 0 0 0	000000000000000000000000000000000000000	0 1 0 0 0	000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	1 0 0 0 1	1 1 0 1 2 0 2	1 1 0 0 2 0	2 2 0 0 1			I NVAI I NVAI 2 3 1 0 1 1		3 2 1 0 1 1 2 2	3 1 0 3 1 1 2	1 2 1 0 3 1 1 1 2	1 2 1 0 2 1 1 1 2	1 2 1 0 1 1 1 1 3	1 2 1 0 2 1 0 3	0 0 1 0 0 2	1 0 0 2 0 0 1	1 1 0 0 1 0 0 2	1 0 1 0 1
11 12 13 14 15 16 17 18 19 20	1 0 0 0 1	0000	1 1 1 1 1 1 1 1	0 0 1 1		0000	1 0 0 1 1 1 1 0 0	0 0 0 1 1 1 1 0 0	0 0 2 1 1 1 1 1 1 1	0 0 0 1 0 1 1 1 1	0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	001111111111111111111111111111111111111	1 0 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 4 1	1 0 1 1 1 1 1 1 3 2	3 1 0 2 2	1 0 1 4 2 1 2 1 2 1	ī	1 4	1 0 1 2 1 1 0 2 1	0 0 0 2 1 1 0 2 1	0 0 0 2 1 1 1 1 2 1	0 0 0 1 1 1 1 2 1	1 2 1
21 22 23 24 25 26 27 28 29 30	1 1 0 0 1	1 0 0 1 1 1 1	1 1 0 0 1 1 0 1 1	0 1 1 0 1	0 1 0 0 0 0 1	0 1 0 0 0 1	0 1 1 0 0 1 1 1 1	1 1 0 0 1 1 1 1	1 0 1 0 0 1 1 1 1 1	1 0 1 0 0 1 1 1 1 1 1	0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 0 1 2 1 4 1	10120112041	1 1 2 1 1 2 0 3	2 1 2 1 2 1 3 1	1 2 1 1 2 1 3 1	1 2 1 2 1 2 1 2 1	2 1 2 1 2 1 2 1 2 1	1 1 2 2 2 2 2 1 2 1	1 1 1 1 0 2 2 2 1	1 1 1 0 2 2 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 0 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31 MEAN	1	0	0		0	0	1	. 1	1	2 1	1	1	1	1	1	2 1	1	1	1	. 1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 89.4

PERCENTAGE OF DATA INVALID - 10.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	-	,		3027																					
	\$1	ATIO		C NO	3500	5	QUEEN	SWAY	HOSPI	TAL	TOBI	OKE				NON	TH -	AUG	80						
HOUR	Ī	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	11	1	1	0	0	0	0	0	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	:	1
2	1		1	1	1	1	- 2	- 1	1	1	- 2	- 2		2	2			- 1				- 1	ó	ò	- 1
3	1	1	1	1	1	1	0	0	0		••••	1	1		1	'n	ò	ò	ó	ò	ò	÷	ŏ	ŏ	ė.
4	0	0	0	0	0	0	0	0	٥	0	- 1	- 1	1		0	0	·	Ü	۰						ĭ
5	0	0	٥	0	0	0	0	. 1	1	3.	2	- 1	- 2		3		1	1	- 1			****			
6					••••				••••		••••	- 1	1	- 1	1	1	2	2	1	1	- 1	- 3	1	- :	2
7	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	2	2	2	5	2	2	1	ò	ò	ő
8	1	1	1	1	0	٥	1	1	1	1	1	0	0	0	0	0	0	٥	0	0	0	0		ő	
9	0	0	0	٥	0	٥	0	0	0	0	0	0	٥	1	1	0	0	0	0	0	0	0	0	ő	
10	0	0	0	0	0	0	0	0	0	0	0	٥	٥	0	0	٥	٥	٥	0	٥	٥	0		-	
11	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	ŏ	ő	ŭ	ō	ن	Ü	0	ō	o	C	٥	0	- 3	٥	5	3	2	2	5	J	0	S	C	2	2
13	ŏ	ŏ	ő	ō	ō	ō	ō	ō	ō	0	0	0	0	0	0	0	0000	0	00000	0	0	0	0	0	0
14	ŏ	ŏ	ň	ő	ō	ō	ō	ō	õ	ō	0	٥	٥	0	0	0	٥	0	0	0	0	0			0
15															ō	0	0	0	0	0	0	0	0	0	
16	0	٥	0	0	0	0	0	0	0	0	0	0	٥	0	Õ	0	0	o	0	0	0	0	0	0	0
17		•					•	•	•					INVAL		-		- 20	-						
18													0			1	3	2	1	1	1	1	1	0	*****
19		0		0	0	0	0	0	0	0	0	0	ő	1	•	2	2	2	2	1	•	,	1	1	1
20	0	ŏ	0	ő	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ			ó	ō	ō	ō	ō	0	o	0	0	٥	0
1,000	U	-				•							·						Ī	-		-	- 2	. 0	1
21	0	0	0	0	٥	0	0	1	1	0	0			. 1	2	2	2	2	1	1	1	1	1	. 0	F#6
22												*		INVAL											
23														INVAL											
24												*		INVAL											10
25													DATA	INVAL		0.2		_		844	-	-	_		
25 26								****		****	****		1	2	3	3	3	3	3	2	2	3	3	- 2	
27 28	2	2	2	2	2	2	0	2	2	2	3	3	3	3	3	3	3 0	3	4	4	3	2	2	- 1	3
28	1	1	1	1	0	0	0	٥	0	0	0	- 1	2		5	2	o	٥	0	0	0	- 1	0	1	
29	0	0	0	0	0	0	0	0	1	1	2	- 3	2			2	2	2	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	2	1	1	1	2	2	2	2	2	2	2	2	2	2	1	1
31	1.	- 1	1	1	1	1		1	1	2	2	3	3	4	4	3	3	3	3	3	2	2	2	2	2
MEAN	0	٥	0	0	0	٥	0	0	1	1	,	1	1	1	1	1	1	1	1	1	1	1.	1	1	0.7

PERCENTAGE OF DATA VALID - 75.8

PERCENTAGE OF DATA INVALID - 24.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. -- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUTAN	T - :	SULPH	UR DI	OXIDE								UNITS	٠ ٥.	01 PA	RTS/M	11110	N						
	SI	ATION	. с	NO	35005	1	QUEEN	SWAY	HOSPI	TAL E	T08:	COKE				MON	тн -	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	2200110010	2 1 0 0 2 1 0 0 1 0	2 1 0 0 2 1 0 0 0	2 1 0 0 2 1 0 0 1 0	2 1 0 0 1 1 0 0 1 0	2100110010	2101110020	1 0 2 1 1 0 1 3 0	2 1 0 2 1 1 0 2 2 0	2 1 0 2 1 1 0 8 2 0	2 1 1 3 2 0	2 1 2	2 2 1 2 2 3 2 0	2 2 2 1 1 2 2 2 0	2 2 2 1 1 2 6 2 0	3 1 2 2 1 1 2 5 1 0	3 1 1 3 1 0	3 1 2 4 1 1 3 3 1 0	3 1 2 4 1 1 3 1 1 0	3 1 2 3 1 1 2 1 1 0	3 1 2 1 0 1 1 1 0	2112101110	2102101100	2 1 0 2 1 0 0	2 1 2 1 1 1 2 1 0
11 12 13 14 15 16 17 18 19 20	0-0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0	010000010	000000000000000000000000000000000000000	1 0 0 0 0 0 0	00010	0000	1 1 0 0 0 1 0 1 0	2 3 0 4 0 1 0 0	0 1 0 1	0 1	0 1 1 0 0 0 0	0 0 0 0 0 1 0 0	0000	000	0 0 0 2 1 0	0 0 0 2 1 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	00001100	00001100	00000	00000	0000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	0 0 0	000000000000000000000000000000000000000	0 0 0 0 0	0 0 0 0	0 0 0 0 0 1	0 0 0 0 0 0 1		0	000000000000000000000000000000000000000	0 0 0 0 0 1 3	0 0 1 0 1 0	DATA 0 0 0 3 0 0	0 0 1		0 0 2 7 2	0 0 1 0 0 1 2 4	0 0 1 0 0 1 1 6	0 0 1 0 5	00300004	0000000	0 0 0 0 0 0 2	0000000	00100002	1 2
MEAN	0	0	0	0	0	0	1	1	1	1		1	1	1	2	2	1	1	1	1	1	1	0	1	0.8

PERCENTAGE OF DATA VALID - 85.4 PERCENTAGE OF DATA INVALID - 14.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

IJMITS + O OF PROTS/MILLION

POLLUTANT - SULPHUR DIOXIDE

STATION - C NO 35005 QUEENSWAY HOSPITAL ETOBICOKE MONTH - OCT HOUR 1.1 24 MEAN 0 0 0 2 3 4 5 6 7 8 9 10 0 0 0 0000. 0000. ... - DATA INVALID 12 13 14 15 16 17 18 19 20 - DATA INVALID - DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID 22 23 24 25 26 27 28 29 30 INVALID INVALID O O O O O O DATA 300-000 -0000000 00000-00-000 0 0 1 0 0 0 1 o n n n

PERCENTAGE OF DATA VALID - 49.6

MEAN

PERCENTAGE OF DATA INVALID - 50.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

O

0.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

0 0

	ST	ATION		NO	3500	5	QUEEN	SWAY	HOSPI	TAL I	TOBIC	COKE				MON	TH -	NOV	80							
HOUR	1,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	٥	0	0	0	٥	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	C	0	0	0	0	0	0	1	5	0	0	
3	0	1:	1	1	1	1	2	4	1	t	2		2	3	2	2	2	2	2	9	2	2		4	3	
4	3	3	2	3	2	2	2		0	0	0	1	1	1	1	1	0	0	0	0	0	o	0	0	1	
5	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	1	0	1	٥	0	
6	1	0	0	0	1	1	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	٥	1	0	0	1	0	1		1	1	2	1	2	1	1	1	0	0	0	0	-1	
8	0	0	0	0	0	0	0	0	0	0	0	0	٥	2	6	3	2	1	C	0	0	0	0	0	1	
9	0	0	0	0	0	1	1	1	1	1	1	1	G		0	0	0	0	C	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0				0	1	1	1	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0		1	0	0	0	1	2	3	4	4	3	3	3	4	1	
13	3	4	3	2	2	1	1	2	2	3	2	2	1	1	1	1	,	1	1	2	1	1	1	1	4	
14	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1		• • • •		1	1	1	1	1	1	1	
15 16 17	1	1	1	1	1	1	1		1	- 1	0	1	0	1	1	1	2	1	1	. 1	1	1	1	- 1	1	
16	0	0	0	0	٥	0	0	0	0	0	0	٥	0	0	0	0	0	٥	0	0	0	0	1	1	٥	
17					****						****		****				0	1	1	1	0	0	0	0		
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1		1	0	
19	1	1	1	1	0	1	1	0	0	0	1	0	1	1		1	,	1	C	0	0	0	0	0	1	
20	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	3	2	2	2	2	3	2	,	
21	3	3	3	4	5	4	5	4	2	1	1	2	2	2	0	0	O	0	0	0	0	0	0	0	2	
22	0	0	0	0	0	0	,	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22 23 24 25 26 27 28 29	1	1	1	1	1		2	3	4	5	6	6	. 6	6	4	3	3	4	4	3	3	3	2	2	3	
24	2	2	2	2	2	2	1	1	2	1	1		1	1	1	1	1	1	0	0	0	0	1	1		
25	1	1	1	1	1	1	1	1	1	1	0	1	0	0			0	0	0	0	1	1	1	0	1	
26	0	0	0	0	1	1	1	0	0	0	0	0	0	0			1	1	1	2	1	1	1	1	0	
27	1	2	2	2	2	2	1	1	1	1	1	1	1	0			0	0	o	0	1	1	1	1	1	
28	0	1	0	1	1	1	1	1	1	0	0	1		0	0		,	٥	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0		0	٥	0	0	0	0	0	0	٥	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	1	1	0	0	0	a	
MEAN	1	•	1		1	1	1	1	31	1	1	1	1	1		î	,	1	1	1	1	1	1	f	0.7	

PERCENTAGE OF DATA VALID - 96.8

PERCENTAGE OF DATA INVALID - 3.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN CHE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

POLLUTANT - SULPHUR DICKIDE

	ST	ATION	. с	NO	35005		QUEEN	SWAY	HOSPI	TAL E	TOBLO	OKE				MON	TH -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	. 11	12	1,3	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 1 1 0 2 3 2 2 0 0	0 0 1 0 1 2 2 2 0 0	0 0 1 1 1 1 0 0	0 0 1 0 1 1 2 1 0 0	0 0 1 0 2 1 3 1 0 0	0 0 1 0 2 : 1 1 0 0	0 0 1 0 2 2 1 1 0 0	1010222	1 0 1 0 3 2 1 1 0 0	0 0 1 0 2 3 1 1 0 0	0 0 1 0 2 2 1 1 0 0	330011111111111111111111111111111111111	0304001200	0 3 1 4 1 0 2 2 2 0 0	3 2 0 2 1 0 0	1 1 1 1 1 0 0	0 1 1 1 0 0	0 1 0 0 0 1 0 0	0 1 1 0 0 0 0 0	30:000	301000	0 0 0 1 2 1 1 0 0 0	222000	0 1 0 1 4 2 2 0 0 0	2
11 12 13 14 15 16 17 18 19	000000	00000	000000	000000	000000	000000	0000000	0000000	0000000	000000	000000		0 2 DATA DATA	O O O O O O O O O O O O O O O O O O O	00006	0 0 0 4	000002	000000	000000		000000	00000	000000	000000	0000
21 22 23 24 25 26 27 28 29	••••		•••		••••	••••	••••	••••	••••		••••	•	DATA DATA DATA DATA DATA DATA	INVALID		1	1	Ą	,	,	•	•	,	,	
31 MEAN	1	1	2 0	0	1	0	1	1	1	1	0	1	1	1	1	1	1	0	0	1	0	0	1	1	0.6

PERCENTAGE OF DATA VALID - 58.2 PERCENTAGE OF DATA INVALID - 41.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION -	C NO 35005 QUEENSWAY	HOSPITAL ETOBICOKE		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.1	2	6
FEB	26	0.9	3	5
MAR	31	1.0	3	5
APR	29	0.9	2	9
MAY	31	1.0	2	Ť1.
JUN	25	0.7	2	6
JUL	28	0.9	2	9
AUG	22	0.7	3	5
SEP	25	0.8	2	9
OCT	14	0.2	2	4
NOV	29	0.7	3	6
DEC	18	0.6	2	7
YEAR	309	0.8	3	11

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS . 0.01 PARTS/MILLION

STATION .	NO 3500	5 QUEENS	SWAY HOSPI	TAL ETOBIC	CKE				
MONTH (	OD TO 05	06 TO 10 1	1 70 15 1	6 TO 20 2	1 TO 25 26	5 10 39 40	10 49 50	SCVER	TOTAL
JAN	740	2	0	0	0	o	0	٥	742
FEB	617	0	0	٥	0	o	0	o	617
MAR	735	0	0	0	o	0	5	٥	735
APR	696	3	0	0	o	٥	٥	0	699
MAY	730	5	1	0	o	٥	٥	٥	736
JUN	606	1	О	0	0	0	o	0	607
JUL	664	,	0	0	0	0	C	0	665
AUG	564	0	0	0	o	0	0	0	564
SEP	610	5	0	0	0	U	υ	0	615
OCT	369	0	0	0	o	0	0	0	369
NOV	692	5	0	0	0	0	0	0	697
DEC	431	2	o	0	0	0	o	0	433
YEAR	7454	24	1.	0	0	0	0	0	7479

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT		AMERICAN STATES			CONCEN'	TRATIONS					
OF CATA				FREQUEN	Y DISTR	BUTION.	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
85.1	0	0.0	0.0	0.2	0.7	1.6	2.0	3.0	3.7	11	0.8

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

	POL	LUTANT	- s	ULPH	JR DIO	KIDE							1	UNITS	- 0.	01 PA	RTS/	ALLLIO	N						
	STA	TION -	C	NO S	35033		EVANS/	ARNOLD	AVE.	ETC	BICO	KE				MON	TH -	JAN	80						
HOUR	1	2	.3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	1 0 1 1 1 2 2 0 0 1	1 0 0 1 1 2 2 0 0 0 0	1 0 0 2 1 2 2 1 0 0	2 1 1 2 1 1 0 0	3 1 1 0 0	1 0 0 1 3 2 1 0 1	1 0 0 1 1 3 8 0 0	1 0 0 1 1 3 7 1	1002132001	1 0 0 2 1 2 1 1 0 2	1 0 0 2 1 4 1 1 0 2	1 0 0 2 1 3	1 0 1 2 1 1 0 1	1 0 1 3 0 2 1 1	1 0 1 3 0 1	1 0 0 1 1 1 1 2	00010021	0 0 2 0 3 1 1 0 1	0 0 0 2 1 4 1 1 0 0	0 0 0 1 1 2 1 1 0 0	0 0 0 1 1 1 0 0 0	0 0 0 1 1 1 0 0 0 1	0 0 0 1 2 1 0 0 1	0 0 1 1 2 2 1 0 0 2	1 0 0 2 1 2 2 1 0 1
11 12 13 14 15 16 17 18 19	1 0 0 1 1 0 0	1 0 0 1 1 1 1 0 0	1 0 0 1 1 0 0 0 0	1 0 1 0 0 0	1 3 1 0 0 0 0	1 0 1 0 0 0	1 0 1 2 1 0 1 1 0 0	1 0 1 2 1 0 1 1 0 0	0 0 1 1 2 0 1 1 0 0	0 0 1 1 2 0 1 0 0 0	0 0 1 1 1 0 1 0 0 0	001.	1011100000	0011100000	1011011000	600-0-0000	5000000000	300:0000	1011000000	0011001000	001000	001000	0000-000	0011001000	1 0 1 1 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0000010101	1 0 0 0 1	0 0 0 0 1 0 0 1	0 0 0 1 0 1 0 1	0 0 0 0 1 1 0 1 0 1	0 1 0 0 1 1 0 0 0 1	0100100001	0 1 0 0 0 0 1	0 1 0 0 1 0 0 0 0 1	0300100000	0200-00000	730020000	0100100010	0 1 0 0 0 1 0	0 1 0 1 0 1 0	0 1 0 0 1 0 1 0 1	0 0 0 1 0 1 0 1	0-00-000-	000000000	0 0 0 0 0 0 0 0	0000000000	00000000	1000000000	000000000000000000000000000000000000000	0 1 0 0 0 0 0 0 0 1
31	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	1	0	٥	0	0	0	o	0	٥	o
MEAN	1	1	1	4	1	1	1	1	1	1	1	1	4	1	1	1	Ť	1	0	0	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 98.4 PERCENTAGE OF DATA INVALID - 1.5 PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O.O. PARTS/MILLION

	PUL	POLLUIANI - SOLPHOR DIOXICO										9			• • • • • • • • • • • • • • • • • • • •										
	STATION - C NO 350			5033	E	VANS/	ARNOL	DAVE	. ET	OBICO	KE				∷on1	тн - в	EE	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
1	0	0	0	0	0	o	1	0	0	0	0	0	0	0	G	0	٥	0	0	1	1	٥.	0	٥	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	0	0	1	1	4000	0	2	Š
3	1	0	0	0	1	1	1	0	0	0	0	1	0	1	- 1	0	1	000	0	0	0	0	0	0	ě
4	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0		0	0	٥			Ÿ
5	0	0	0	0	0	0	0	0	0	0	0		c		-4	3	(4.5		2	1	2	2	2	1	- 2
6	ī	1	1	2	2	2	1	1	1	1	1	1	0	1	1	3	1	1	1	1	1	1	1	1	
7	î	1	1	1	4	1	1	1	1	1	1	1	0	0	0	0	C	0	1	0	0	0	0	0	
à	o	0	1	1	1	1	1	1	1	1 3	• • • •	1	1	1	1	1	000	0	0	0	0	0	0	0	1
	ŏ	0	o	0	4	1	0	0	0	0	1	1	1	1	0	0		000	0	000	0	0	0	0	0
10	ō	ō	ŏ	ŏ	1	1	2	2	3	2	1	1	1	1	1	3	2	1	0	0	0	0	1	1	1
11	2	2	2	2	1	Ť	1	1	1	1	1		1	1	ĭ	1	1	2	3	2	1	1	1	\$	•
12	ō	0	ā	ō	ò	o	0	0	1	1	1	٥	1	1	1	0	C	0	O	0	0	C	0	٥	٥
13	ĭ	ŏ	0	1	1	ĭ	1	1	1	1	1	2	2	2	1		1	1	1	1	2	2	2	2	. 1
14	•	ž	2	2	٠	2	,	2	2	2	2	1	1	1	0	0	0	0	٥	0	0	0	1	0	1
15		•	•	- 7	- 7	7	5	3	3	2	2	2	2	1	1		1	1		1	1	1		1	1
16	Ÿ	- 1	-			- :	7	7		•	7	•••-	- 7	o	0	0	0	0	1	0	1	1	0	0	1
17	- :	- 0				- 1			4	- 1	- 4	٥	ò	ō	ŏ	0	ō	0	1	1	1	1	1	1	1
	- 1	- :	- 1			•		- 2		2	- 1	ĭ	- 7	- 7	,	1	2	•	1	- 1	2	4	3	3	2
18	1		1			-			3	2	- 6	,	- 4	- 6	2	,	2	2	,	9	5	2	3	3	3
19	3	2	1	3	4	4	3	3	3	2	2	2	2	2	2	ī	ī	ī	1	1	ī	ī	1	1.	2
		-								¥			,	4		31	1	4	1	1		1	1	1	1
21	- 1	,	1		- 1	- 2				- 1	- 1				- 1	- 1			•	- 1		- 1	0	0	1
22 23 24	- 1	1	1	ò	ò		ò	- 1	- 1	- 1					- 1	- 1		2	•		•	2	2	i	1
23	0	٥	٥	0	٠	- 1	-		,	ò	ò	ò	ó	0	ó	o	ċ	ō	ñ	ô	ā	ō	2	0	0
24	1	- 1	1	1	1	1	1	ò		ŏ	ŏ		ő	ŏ	2	ő	ŏ	Š	ŏ	ŏ	ŏ	ŏ	0	ō	0
25 26 27 28 29	0	0	0	0	0	٥	0	0	0	0	0	0	o	ŏ	ó	ŏ	0000	000	200000	000	000	ĭ	ĭ	ŏ	ā
26	0	0	0	0	0	٥		٥	0	1	0	ő	ŏ			ő	0	ŏ	ŏ	ő	ŏ	ò	ò	ŏ	ō
27	0	0	1	1	1			1	1		0	0	ö	0		ö	ŏ	ő		o	Ÿ	ĭ	1	ŏ	ŏ
28	0	0	٥	0	1	0	0	0	0	0	0		ö	ő	0	0	0	٠	2	2	ò	ò	ò	ŏ	ŏ
29	0	0	0	0	0	0	0	0	0	0	0	A 1.8	0	U	0	U		,	-	4	J			•	7
MEAN	1	1	1	1	,	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.3

MOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. 5	ULPH	UR DIOX	IDE							UNITS	٠ ٥.	01 PA	RTS/M	LLLIOI	N						
	STA	TION -	c	NO	35033	ε	VANS/ARN	DLD AVE	. 6	TOBIC	OKE				MON	TH - 1	118	80						
HOUR DAY	4	2	3	4	5	6	7 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	020110011001001021	0 2 1 1 1 0 1 1 0 0 1 0 0 0 2 1	0212101112 0010021	021120111	0 2 1 1 1 0 0 0 1 1 2 0 0 0 0 2 1	0111101112 0020011	0 0 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1 0	0	- 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0	011111111111111111111111111111111111111	0 0 1 2 1 1 1 0 0 0 0 1 0	0 0 1 2 1 1 1 0 0 1 1 1	0 1 1 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0	000:11100000000000000000000000000000000	001101101100021	001110112011100121	0011011011	0011022011	1011021010	101101010	1 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 1 1 2 0 0 1 1 1
17 18 19 20	0	0	0	0	1	0	0 0			0 0	2	2	0	1	2	0 1 1	1	0	0	0	1	1	1	1
21 22 23 24 25 26 27 28 29	1000000221	1 0 0 0 0 0 0 1 2 2 1	1000001221	1 0 0 1 0 0 1 2 2 1	0 0 0 0 2 2 1	000000000000000000000000000000000000000	1 1 0 0 0 0 0 1 1 1 1 0 0 0 0 1 2 2 2 1 1 2	0		0 1 1 1 1 1 1 1 1 1 1 0 2 1 3 3 3 1 1 2	0	1 0 1 1 0 2 2 1 2	0 0 2 1 1 0 2 2 1 2	00200022222	0 0 1 2 2 1 3	0011012213	0 0 1 2 0 3 2 2 1 2	0 1 1 0 2 1 2 1 2	0 0 1 0 1 2 3 1 2	0 0 0 0 1 1 2 3 1 2	000001222	0000002222	0000002212	1 0 1 1 0 0 1 1 2 1 2
31	2	2	2	2	2	2	2 2	1	9	1 1	1	1	1	1	.1	1	1	1	1	1	1	1	1	•
MEAN	1	1	1	3	1	1	1 1	1	9	1. 3	ı	1	1	1	1	1	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES GRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS . O. J. PARTS/MILLION

HOUR OAY																										
1						35033		EVANS/	ARNOL	D AV	E, E1	0810	OKE				MON	TH	APR	80			8			
2		1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2	1	1	1	4	Ť	1	1	4	1	2		2	2	2	2	2	2	2	1			1	,	1	1	1
3	2	1	1	1	1	1	1	1	4	1	1	1	2	2	2		2	2	2	2	2	2	2	2	2	2
1	3	2	2	2	2	2	2	3	3	2	1				1		2	2		-	- 7	7	2	1	1	2
6	4	1	1	1	1	1	1	3	1	1	1	1	1	1	- 6	1	1	T T	-	1	- 1	- 1	- 7	1	1	•
6	5		1	1	-1	1	3	1	1		1	1	1	1	1	,	1	1		1	0	- 1	4		0	
8	6	0		0	1	0	O	1	1	1	1	1	1	1				1		,	1	- 1	1		,	1
8	7	2	2	1	1	1	1	1	2	2		2	2	2	2	2	2	2	2	1	1	•	2	2	2	2
9	8	2	2	2	2	2	2	1	2	2					3		2	1	- 7	1	•	-			-	2
10	9	1	1	1	1	1	1	1	1	1	1	1		1	ī	- 7	1	0	0	0	0	ò		0	0	1
14	10	0	0	0	0	0	0	1	0	0	. 0	0	0	0	0	0	0									o
14		0	0	0	0	0	0	0	0	0	0	c	0	0	0	^	0	0	- 0	a	n	•	0	0	0	0
14	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	0	0		ō		0	0	3	0
14	13	0	0	0	0	0	0	0	0			0				0	0									
15	14		0	0	0	0	0	0	0	0	0	0	0	0	ī		0	0		ō	õ				ō	٥
17	15	0	1	0	0	0	0	1	0		0	0		0	0		1								ō	
17	16	0	0	0	0	0	0	0	0		0	0	0	o		1	1	1	1	1	ī	ī	1	1	٥	Ċ
19	17	0	0	0	0	0		1	1	3	3	2	3	1	1	1		1	1	1	1	•	1	3	1	1
19		3	1	1	. 1	1	0	1	1	1	1		1	2	4	3	2	ř	1	1	1	1	1	1	1	1
20	19	1	1	1	1	1	1	2	1	1	2	2	2	2	3		2	2	2	2	1	1	1	1	1	2
22 1 0 1 0 1 2 1 1 1 0 1 1 1 - 0 0 0 0 0 1 0 0 - 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	1	2	1	2	1	1	1	1	1	•	1	2	1	1	ī	1	1			0	ò	i	1	1	1
22 1 0 1 0 1 2 1 1 1 0 1 1 1 0 0 0 0 0 0	21	1		1	1	*	0	0	1	0		1	•	1	í	1	1	1	:	1	1	,		*	1	ť
24	22	1	0	1	0	1	2	1	1	1	0	1	1	1		0	0	0	0	0		0	0	-		1
24	23	0	0	0	0		1	1	2	1		2	1	1	1		1	1	1	0	0	0	0	0	0	1
29 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24	0		0	0	0	0	0		0	0	0	0	1	1	1	1	1	0	1				0	0	0
29 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25	0		0	0	0	0	0	0	0	0		0	0	0	1	0	0	0	1	0			0	0	0
29 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26			0	0	0	0	0	0	0	1	1	1	1	1	3	1	1	1	1	C				1.	
29 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27	0	0	0	0	0	0	0	0	1	1	1	1	1	1	,	1	1	1	1	1	_			1	1
29 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28	1	1	1	1	1	1	1		1	1	0	0	0	0	0	0	0	0	0	0	0			0	0
30 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 - 0 0 0 0	29	0	0	1	0	0	0	0	0	0	0	0		0			o									0
MEAN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30	0	1	0	0	0	1	0	0		0	0							0			0	0			2
	MEAN	ï	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	1	1	1	Ψ.	1	1	0.7

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1, \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	OLLUTA	NT .	SULPH	UR DI	DXIDE								UNITS	٠ ٥.	C1 PA	RTS/MI	LLION	•						
	s	TATION	1 - 0	NO	35033		EVANS/	ARNOLI	D AVE	. ET	08100	KE				MON	TH - N	YAI	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	:4	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	00020		0 0 1 1	0 0 0 1	0 0 0 1 0 1	00000	00000	0 1 0 0 0	0 1 1 0 1 1	0 0 1 0 1	1 1 1 1 1 0	1 1 1	3	3 1 2	1 1 1	3	0 1		0000	0 0 0	0 0 0	0 0 0	0 1 0 0	0 0 2 0 0	0 1 1 1 0
7 8 9 10	0	0 0	0 0 1	0 0 1	0	0	0 0 0	0 0	0 -	2	2	0 0 1 2	0 0 1 2	0 0 1 2	0 0 1 2	0	2	00-2	0	0012	0 1 2	0 0 1 2	2	0 0 1 2	0
11 12 13 14 15 16 17 18 19	1 0 0 1 1 0 0	1 1 0 1 1 0 0	1 1 0 1 1 1 0	2 1 1 0 1 1 1 0	0000	1 1 1 1 0 1 1 0 0	1 1 1 0 1 0 0	2 1 1 1 1 1 1 1 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2 1 2 1 1 1 1 1 1 1	1 2 1 1 1 1 0	3	3 : 2 : 2 : 1 : 1 : 1	2 0 2 2 1 1 1	2 1 2 1 0 2 1 1 1	1 1 0 1 2 1 1 0	2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 0 1 2 1 1 1 1	2 1 1 1 0 1 1 1 1 1 1	1 0 0 1 1 0 1 1	1 1 0 1 1 0 1 1	1 1 1 0 1 1 0 0 0	1 1 0 1 1 1 0 0 0	0 1 1 0 0 0	2
21 22 23 24 25 26 27 28 29 30	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 1 1 1 1 1 1 1 2 2	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 0 1 1 1 1 1 1 2 2	0 1 1 0 0 0 1 3	01211012	1 3 1 1	1 1 1 2 2 2	2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 4 5 1 2	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 3 6 1 1 1 1	3 1 4 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 1 4 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30330	10210010	1011311	0000	2 2 1
31 MEAN	0	0	0	0	0	0	0	0	1.	1	1	1	,	1	1	0	0	ن 1	C 1	o 1	C 1	0	C 1	U I	0.9

PERCENTAGE OF DATA VALID - 94.8 PERCENTAGE OF DATA INVALID - 4.8

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STATION - C NO 35033 EVANS/ARNOLD AVE. ETOBICOKE															#.OV	iin -	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	. 11	12	13	1.4	15	16	17	18.	. 19	20	21	22	23	24	MEAN
1											0	,	DATA	INVA	.10 -	3	o	0	0	0	0	0	0	0	
•	0	0		0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	G	0	0	0	0	0	0
Ā	ő	õ	ŏ	ō	ō	ō	0	0	0	1	0	a					*							• • • • •	*****
5										••••	• • • •			1	1	1	1	,	1	1	2	1	1	2	
6	1	,	3	2	1	1	1	1	1	- 1	3	1	- 1	1	1		1	C	0	O	O	0	0	0	
7	٥	0	ō	1	1	1	0	0	1	1	1	1	¥	1		1	1	1	1	1	1	1	0	1	ò
8	1	0		1	0	٥	0	0	1	1	1	O	0	0	O	٥	o	3	O	0	0	0	Ö	ŏ	ŏ
9	0	0		0	0	C	0	1	0	0	••••	0	- 1	1	O	0	Ü	O	0	0	0	0	õ	ŏ	ŏ
10	0	0	0	0	0	0	D	0	1	0	0	٥	0	0	U	0	U	٥	٥	0	o	0			
							140				5.0	_	100	_	_	a	c	0	0	0	٥	0	0	0	0
1.1	0	0				0	0	0	1	0	1	٥	1	0	0	J	٠	٠	Ų.	Ü	·		7	7	- 7
12	0	0				2	1	3	2	3		1	- !		- 1		,	3	2	5	2	2	2		1
13	0	0		0	٥	٥	0	1	!		1	2	2	2	3	- 5	2	2	2		- 1	7	1	0	2
14	1	2		1	1	1	1	2			- 2		ő	ő	0	0	ō	ō	ō	ò	ò	ò	0	0	0
15	0	0	. 0			0	0	0	0	0			ŏ	0		0	ñ	ő	ŏ	ő	ŏ	ō	o	0	0
16	0	0	. 0	0		0	0	٠	٥	2		Ÿ	Ÿ	1	1	1	1	ŏ	ŏ	Ö	ĭ	1	0	0	1
17	000	000	0	0		0	0	ò	ò	- 1	1	100	į	ò	ò	o	o	ŏ	ō	ō	0	0	0	0	0
18						0		. 0	o	ò	ò	à	ò	ő	ŏ		1	1	ō	1	0	0	0	0	0
19	0	0						ő	ő	o		õ	ŏ	ŏ	ŏ	ō	. 0	0	0	0	0	0	0	0	0
20	U	U	u	U	U	U	٠	•																	
21	0	0	0	0	0	0	0	٥	0	0	0	0	. 0	0	0	0	0	0	C	0	1	0	0	٥	0
22	ő	ŏ					0	ŏ	ŏ	ō	1	1	1	1	1	1	1	1	1		2	1	1	0	1
23	ő	ŏ		0	00000	0	ŏ	ŏ	Ĭ	1	****	1	2	2	2	2	2	2	2	4	3	2	1	1	1
24	ĭ	ī	ŏ	ō	o.	1	1	.3	6	5	1	1	1	2	2	2		1	1	1	1	1	0	0	3
25	o	i	ō	ō	0	0	0	0	0	1	1	1	1	1	1	1	2	2	1		0	0	0	0	1
26	õ	0	0	o	0	0	0	0	0	0	0	1	1	1	1	1	0	٥	٥	0	0	0	0	ŏ	ŭ
27	o	0	o	0	0	0	0	0	0		1	1	٥	0	0	٥	0	0	٥	٥	0	0	0	· ·	·
25 26 27 28 29	000	0			1	1	1	0	0	1	0	0	0	0	G	0	0	•	1	1	- 1	1	1	,	
29	1	ō			0	0	0	1	1	0	1	1	1	1	1		1	1.	0	0	1	0	0	0	ò
30	ò				0	0		0	o		0	0	0	0	0	0	0	0	0	0	0	D	O	U	J
MEAN	٥	0	o	0	٥	٥	0	0	1	1	1	1	1	1	1	Ĭ	1	1	1	1	1	0	0	0	0.5

PERCENTAGE OF DATA VALID - 90.0 PERCENTAGE OF DATA INVALID - 9.9

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	DLLUTA	ANT -	SULP	HUR DI	OXIDE								UNITS	٠ ٥.	01 PA	RTS/N	WILLIC	N.						
	ş	TATIO	v -	C NO	35033	i	EVANS	/ARNO	LO AV	E. ET	овісс	KE				MON	TH .	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	0 0 0 0		0 0 0 0 0		0 1 0	0	0		0000		00000	1 0 0 0	1 0 0 0	1001000	0 0 0 0 0	1 0 0 0 0 0	10000	1 0 0 0 0	00000	00000		0 0 0		00000	0 0
9 10	0	0	0	0	0	0	0	0	1	0	0 2	1	0 1 2	1 2	1 2	1	1 2	1 2	1 2	0	0	0	0	0	0
11 12 13	000	0	0	0	0	0000	0 0 0	0	0 0 1	0	0	1 0 1	1 0 1 1	n 1 1 INVAL	1011	0	0 0 1 2	1 2	0 1 3	0 1 3	0000	0	0 0 2	0 0	0
15 16 17 18 19	0000	0	0	0	0	00000	0 0 0	0000	0000	 0 0 0	0 0 1 0	0 0 1	0 0	0 0 0	0 0	0 0 1 0	0 0 1	0 0 1 0	0 0 1 0	0000	0000	00000	00000	0000	0 0 0
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000			000000000000000000000000000000000000000	000000000000000000000000000000000000000	0	000011000	0000	0 0 0 1 1 1 0 1 0	0 0 0 1 1 1 0	0 0 0 0 1 0 0 0	0 0 0 1 1 1 1 1 1 1 0	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 1 1 1 1 1 0 0 1 0 0 0 0 0 0 0 0	1 1 2 0 1	000-20-000	1 1 1 0 0 0	1 1 2	0 0 1 1 1 . 0 0	0 0 1 0 0 0	0000	0 0 1 1 1 0
31 MEAN	0				_	• -		0	0	0	0	0	0		1	1	1	1	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 88.3

PERCENTAGE OF DATA INVALID - 11.0

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION	٠ ,	NO	35033	3	EVANS	/ARNO	LD A	/E. E	товіс	OKE				5101	NTH .	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	0	0	0	0	٥	٥	0	0	0	0	c	1		en 4.5						0	o	0	C
2	0	0	ō	o	0	0		Ď	ō	1	1	ī	Ĩ	1	- 1	1	ï	0	0	0	0	o	0	0	ō
3	000	0	0	0	0	0	00	0	0	0	0	0	1		1	1	1	1	ō	ŏ	o	o	0	0	O
4	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	J.	0	ō	0	0	0	0	0
5	0	0	0	0		0	0	0	0	0	0	0		1	1	1		1	7	1	î	1	0	0	0
6	0	0	0	0	0	0	0	0	0	0	1	1	****	31	0	0	C		C	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	1	1	- 1	1	1	1	1	1		1	C	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	1	0			0			1	0	0	Q	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0			0	0	1	C		0	0	0	0	0	0	G
10	0	0	0	0	****	••••	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0
11	0	0	0	0	0	0	0	0	0	0	0				0	0		0	0	1	0	0	0	^	^
12	0	0	0	0	0	0	0	0	0	٥	0			0			C	٥	0	0	0	0	0	0	٥
13	0	0	0	0	٥	0	o	0	0	0	0			0		0	O		0		0	0	0	0	٥
14	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	1	٥	0	0	0	0	0	0	0
15	٥	0	0	0	0	0	0	٥	0	0	,	1	****		2	2	2	2	1	1	1	1	1	1	1
16	1	1	1	1	1	7	1	1	- 1	1	1	1	- 1	3			1	1	1	- 1	1	1	1	1	1
17	1	1	1	1	1		,	1	1	1	1	1	- 1		1	1		1	1	1	1	1	1	1	1
18			- 1	1	1	1		1	1	1	1	1	- 1	1	- 1	1			1	1	1	1	1	1	1
19	- 1		- 1	- 1	- 1	٥	••••	- 1	- 1	1	1		****	2	2	2	2	2	2	2	1	2	1	1	
20	1	9	1	-1	1	1	1	1	1	1	4	1		2	2	2	2	2	2	2	2	2	2	2	1
21	2	2		• • • •	1	1	1	1	1	1	1	2	1	2		2	2	2	2	2	1	2	1	1	2
22	1	1	1	1	- 8	1	1	- 1	1	1	- 1	1	1	1	2		2	2	1	1	1	1	1	1	1
23		1	1	1	1	1	1	1	1	1	- 1	1	****		2	2	2	2	2	2	1	1	1	- 1	1
24 25 26 27	1	1	1	1	1		1	1		••••			• • • • •				• • • • •	****	••••	••••		1.	1	1	•••••
25	1	1	- 1	- 1		1	2	2				• • • •	****			3	2	3	3	2	2	2	2	1	2
26	1	1	- 1	- 1	2	- 1	1	1	****	****		••••	2	2	3	3	3	2	3	2	2	2	1	- 2	2
27	2	-	2	2	2	1	1	- 1	2	2	2	2	2	2	2		2	2	3	2	2	1	,	- 1	2
28 29	1	1	- 2	- 1	1	1	1	- 1	1	3	1	1	1			2	1	1	1	1	1			- 1	1
30	1	,		- 1	1	- 1	1		- 1	2	2		2	2	2	3	2	2	2	2	2	1	2	1	
30		,			1				- 1	4		1	4	,	3	. 10	- 4	2	2	2	2	2	4	2	ē
31	2	2	2	1	1	1	1	2	1	1	1	1	2	2	2	2	4	2	2	1	1	1		2	1
MEAN	1	1	1	1	Ť	1	1	1	1	1	1	•	.1	1	3	1.	1	1		1	1	1	•	1	0.8

PERCENTAGE OF DATA VALID - 93.0 PERCENTAGE OF DATA INVALID - 6.6

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POL	LUTANT	•	SULPH	IUR D	OXIDE	E							UNITS	٠٥.	01 PA	RTS/N	ILLIC	N							
		STA	TION -	C	NO	35033	3	EVANS	/ARNOI	LD AV	E. E1	0810	OKE				MON	TH -	SEP	80							
HOUR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9		1 1 1 1 1 1 1 1	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 1 1	1	1 1 1 1 1 1 1 1	1 0 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 2	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2	1 1 2	1 1 2 1 1 1 2	1 1 2 1 2 1 2 1 2	1 1 2 1 1 1 2	1 2 3 1 1 1	2 1 2 2 1 1 1 1 1	2 1 2 2 1 1 1 1	2 2 1 1 2 1 1	2 1 2 3 1 1 2 1 1	1 0 1 1 1 2 1 1	2 1 0 1 1 1	1 1 2 1 1 1 1 1	1 1 2 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1	1 1 2 1 1 1 1 1 1 1	
10 11 12 13 14 15 16	•••	1		1 0					1	1 1	1 2	1 3		DATA	INVAL INVAL INVAL	10 -	2	2	2	1 1 1	2	; ! !	1	1 1	1	1	
18 19 20		0 1 1	1	1	1	1	1	1	1 1	1 2	1 2	1	1	1	1	1 0 1	1	1	1 1	1 1	1	1 0	0 1 0	1 0	1 0	1	
21 22 23 24 25 26 27 28 29		0 1 0 0 0 1 0 0 0	00000100	00000100	0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 1 1 0 0	0 0 0	1 0 0 0	0	0	5 0 0	0000	20000	1 3 0 0 1 0 0 1	1 2 0 0 1 0 0	1002001	1100+000	1 0 0 2 0 0 0	1 0 0 2 0 0 0	1 1 0 0 2 0 0 0	1 0 0 0 1 0 0 0	0000	00100	11001000	
30 MEAN	0.00	1	1	•	1	1	1	1	2 1	1	1	2	2	2	2	2	2	2	2	2	1	2	1	1	1	0.9	

PERCENTAGE OF DATA VALID - 80.6 PERCENTAGE OF DATA INVALID - 19.3

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. " - INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

. HATTS - O OF PARTS/MELLION POLLUTANT - SULPHUR DIOXIDE MONTH - OCT 80 EVANS/ARNOLD AVE. ETOBICOKE STATION - C NO 35033 12 13 HOUR - DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID
- DATA INVALID 0 0 0 1 2 1 00. 00. 00: 00. 12 13 14 15 16 17 18 19 20 00. 00.0000000 22 23 24 25 26 27 28 29 30 -000000.00 00.0000000 0 0 2 0-0000000 

0 0 0 0 0

PERCENTAGE OF DATA VALID - 64.1

PERCENTAGE OF DATA INVALID . 33.3

PERCENTAGE OF DATA UNAVAILABLE - 2.6

0 0

0 0

0.6

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. .- INDICATES DATA IS UNAVAILABLE

0 0

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

0 0

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POL	LUTANT	- 5	ULPHU	R DIO	301x							u	NITS	- 0.0	1 PAR	TS/MI	LLIO	N						
	POLLUTANT - SULPHUR DIOXIDE STATION - C NO 35033 EVANS/A						ARNOLD	AVE.	ETO	вісон	ε				MONT	H - N	IOV	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6	0012001	. 0 1 2 0 0 0	00010000	00.00000	01000100	0 0 1 2 0 0 1 0	0 0 1 3 0 0 1 0	0 0 1 0 1 0	0 0 1 0 0 0 1 0	001000102	00.0.0	00-000-0	0 0 0 0 0	0 0 2 0 0 0 1	0 0 2 0 0 1 0	0 0 2 0 0 0 1 0	00100010	00100010	0 0 1 0 0 1	01100010	011000000	0 1 0 0 0 0	0020 - 100	004001000	0 0 1 0 0 0 1 0 0
10	0	0	0	ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19 20	0031103000	003.	000000000000000000000000000000000000000	0011002000	0001003000	0000112000	0001013000	1 1 1 1 4 0 0 0	1 1 0 0 1 4 0 0 0	00200	0 0 0	00-0000000	0 0 1 0 0 0 0 0 0 0 0	1010002100	1 0 1 1 0 0 1	0 1 1 0 0 1 1 0 1	0 1 1 1 0 0 0 2	1 1 1 1 0 0 2	2 4 2 1 0 1 1 0 0 2	1 1 1 0 0 1	0 2 1 1 2 1 0 0 1	1 1 0 0 2	0 2 2 1 1 2 1 0 0 3	0 2 0 0 0 3	1 0 1 2 0 0 1
21 22 23 24 25 26 27 28 29 30	30,200	3 0 2 3 1 0 2 0 1 0	1 0 3 0 1 0	4 0 1 1 1 0 3 0	3 0 1 1 1 3 0 1 0	5 0 1 1 1 2 0 0 0 0	4 1 2 2 0 2 1 0 0 0	4 0 3 2 1 1 0 0 0 0	2 0 3 2 1 1 0 0 0 0	1 0 3 1 1 0 0 0 0 .	1 1 4 1 0 0 0 0 0 0 0 0	10410:0000	1 0 0 0 0 0 0 0	1021000100		0-2-000000	0 1 2 1 0 0 0 1 0 0	0 1 2 1 0 1 0 0 0	0 0 2 1 0 1 0 0 1	0 0 1 1 0 1 0 0	0 1 2 0 1 1 0 2 1	0 1 2 1 1 0 1 0 1 1	1 1 0 1	0 1 0 1 1	2 0 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	J	1	1	1				100	****

PERCENTAGE OF DATA VALID - 97.5

PERCENTAGE OF DATA INVALID . 0.6

PERCENTAGE OF DATA UNAVAILABLE - 1.9

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0 01 PARTS, MILLION

	STA	TION	- c	NO	35033		VANS/	ARNO	D AVE	, ET	08103	KE				MON	Th -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1		1	1	1	1	Ţ.		1	1	1	1	****	C	0	0	0	0	1	1	1	1	1	4	-8	1
2	1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	2	2	0	3	2	0	0		1	1
3	0	0	o	0	0	0	0	1	1	1	G	1	0	0	0	0	0	O	0	0	0	0	0	0	0
4	2	0	0	0	0	1	1	1	1	2		4	3	2	2	1	1	1	1	2	1	*	2	2	1
5	2	2	2	2	2	2	3	3	3	2			0	0	0	0	0	0	3	4	4	4	4	4	2
6	3	3	4	4	3	3	4	4	5	4	2	0	0	0	0	0	7.	1	1	0	0	0	1	2	2
7	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	0	0	0	0	0	7	U	1	1	0	3	C	0	0	0	0	0	0	1	٥
9	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	5	4	1			0	0	.1
8 9 10	0	0	0	0	0	0	٥	1	1	0	0	0	٥	0	٥	0	• • • •		0	0	0	0	0	1	0
11	3	1	1	•	1	1	2	2	• • • •	1		1	1		3.	1	Ŧ	1	1	1		•		1	1
12	1	1	1	2	2	2	2	2	3	4	2	2	2	1	2	4	3	2	2	2	1	1	1	1	2
12 13 14 15 16 17 18 19	1	1	1	1	1	1	1	1	1	1	3	2	1	,	,	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	0	1		1	1	,	3	U		1		1	1	1	10.0		
15	1	1	1	1	1	1	1	1	1	2		1	1	2	3	3	4	4		3	3	3	3	3	2
16	3	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	. 1	1	1	1	2
17	1	1	1	•	1	7	1	1	t.	1		1	8	4	7	6	3	1	3	9		10	a	3	3
18	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1		100		.1
19	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	- 1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	3	1	1	,	1		1	1	1	1	5.	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	2	2	2	2	3	2	2	5 3	4	5	3	2	2	2	1	2	2	3	5	2
23	5	5	5	6	7	8	8	7	7	5	4	4	3	3	12	3	2	2	• • • •	1	2	2	2	2	5
24	2	3	3	2	2	2	2	2	1	1	1	0	0	0	0	0	0	c	0	0	0	0	0	0	1
25	0	0	0	0	0	1	1	- 0	0	1	1	٥	1	1	0	1	1	1	1	0	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	2	2	2 2	2	2	2	2	2	2	2	2	2	2	2	2
21 22 23 24 25 26 27 28 29 30	2	2	2	3	2	3	3	4	7	5	3	2	2	2		2	2	2	2	2	3	3	3	4	3
28		3	3	3	3	3	3	4	5	*	6	5	3	4	4	4	3	3	3	3	4	4	4	4	
29	4	4	4	4	4	4	3	3	3	3	2	• • • •	2	2	1	2	2	2	1	1	1	- 1	1	1	2
30	2	2	2	2	1	3	2	1	1	1	1	1.	1	1	1	1	1	1	1	1	1	1	2	1	1
31	1	1	2	2	2	2	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	•	1
MEAN	2	1	1	2	1	2	2	2	2	2	2	1	1	1	2	1	•	1	1	t	1	2	2	2	1.5

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVAL.D - 1.3 PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIP RESOURCES ENANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS . 0.01 PARTS/MILLION

STATION - C	NO 35033 EVANS/ARN	OLD AVE. ETOBICOKE		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
NAL	31	0.6	2	8
FEB	29	0.7	3	4
MAR	31	0.8	2	4
APR	30	0.7	2	4
MAY	29	0.9	2	8
JUN	26	0.5	2	5
JUL	27	0.2	· ·	2
AUG	30	0.8	2	3
SEP	25	0.9	2	5
OCT	20	0.6	3	4
VON	30	0.6	2	5
DEC	31	1.5	5	12
YEAR	339	0.7	5	12

		ONTARIO	MINISTRY	OF THE	ENVIRONME!	T - AIR	RESCRESS	SRANCH	,
MONTHLY GROUP	FREQUENCY	DISTRIBUT	ON FOR 19	80					<i>.</i>
POLLUTANT - SU	LPHUR DIOX	IDE	(+		UN	ITS - 0.01	PARTS/MIL	LION	
STATION - C	NO 35033	EVANS/	ARNOLD AVE	. ETOBICOK	•				
MONTH OO	TO 05 06	TO 10 11	TO 15 16	10 20 21	10 25 26	TO 39 40	10 49 50	SCVER	TOTAL
JAN	728	4	o	o	U	0	ο '	0	732
FEB	681	0	o	0	0	0	٥	0	681
RAM	734	0	0	0	c	0	٥	0	734
AFR	701	0	. 0	0	0	o	0	0	701
	702	3	0	0	0	٥	٥	0	705
MAY		-	0	0	٥	0	o	0	648
JUN	647	1	0	0	0	0	o	o	657
JUL	657	0				0	0	0	692
AUG	692	0	0	٥	0		0	0	580
SEP	580	0	0	0	0	0		0	477
OCT	477	0	0	0	٥	0	0		702
NOV	702	٥	0	0	0	0	0	0	
DEC	707	14	1	0	0	0	0	٥	722
YEAR	8008	22	1	. 0	0	0	0	0	8031

FREQUENCY	PERCENT	ION BY	PERCENTILES		FREQUENC	CONCEN	TRATIONS	PERCENT				ARITH
	OF DATA	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	91.4	٥	0.0	0.0	0.1	0.6	1.4	1.9	2.8	3.5	12	0.7

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE							Į.	INITS	- 0.	O1 PAR	1M/219	LLION	N						
	STA	TION -	c	NO :	35050	М	OE LA	8 RES	OURCE	S RD	ETO	9100	(E			NON 1	TH - J	IAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 ME.	
1 2 3 4 5 6 7 8 9	1 0 0 0 1 3 1 1 0	1 0 0 0 1 3 1 1 0	1 0 0 0 0 1 3 1 1 0	0 0 1 0 0 1 8 1	0010018	0000014	0 0 0 1 3 1 0 1	0000012101	0 0 0 1 0 1 2 1 0 1	0 0 0 1 0 2 1 1 0 3	0 0 0 1 0 2 1 1 0 3	3 1 1 0 2	0 0 1 1 0 3 1 1 0 2	0 0 1 1 0 2 1 1 0 2	0 0 1 1 0 2 1 1 0 3	0 0 1 0 2 1 1 0 4	0 0 1 1 0 2 1 1 0 4	0 0 1 1 0 3 1 1 0 2	0 0 1 1 1 3 1 1 0 3	0 0 1 1 0 3 1 1 0 3	0001121102	0 0 0 1 1 2 1 1 2	0 0 1 1 2 1 1 0 2	0 0 0 1 3 1 1 0 2	0 0 1 0 2 2 1 0 2
1: 12 18 14 15 16 17 18 19	3 1 0 3 1 1 1 1 0 0	3 1 0 2 0 1 1 0 0 0	2003011000	3014011000	3 0 1 3 0 0 0 0 0	2032011000	2032011000	2 0 1 2 1 1 0 0 0	2011211000	2 0 2 1 2 1 0 0 1	2 0 2 1 2 0 0 1	1 0 1 2 1 1 2 0 0 1	1 0 2 1 1 1 2	1 0 2 1 1 2 0 0 1	0	0 2 1 1 2 1 0	1 1 2 1 0 0	1 2 1 2 1 0 0	1 1 1 2 1 0 0	1 1 1 2 0 0 0	1 1 1 2 0 0	1 0 3 1 1 1 0 0 0	1 0 5 1 1 1 0 0 0	1 0 5 1 1 1 1 0 0 0 0	2022
21 22 23 24 25 26 27 28 29 30	0000010102	0000110102	0000110102	0000110000	0 0 0 0 1 1 0 0 0 2	0000210003	000000000000000000000000000000000000000	00000000	0000200001	0 1 0 0 0 0 1	0 0 0 0 0 0 0 1	0 1 0 0 2 0 0 0 2 1	0 1 0 0 0 1 1	0 1 0 0 0 1 1 0 0 0 2 1	0 1 0 0 1 1	00011000	0 0 1 1 1 0 1 0	01001000-0	0 1 0 0 0 1 0	0100100010	0 1 0 0 1 0 0 1 0	0000100000	0 0 0 1 1 0 0 0 0	00001010	0000110011
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	၁	0	٥	0	Q	U	٥	υ
MEAN	1	1	1	1.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	0.7

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. &</sup>quot;-" INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	. с	NO	35050	N	OE LAB	RES	OURCE	S RD	ETO	BICOR	E			A*O	NTH -	FEB	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	٥	٥	0	0		1		1	1	1	1	1	1	0	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	•	1	1	2	2	2	2	1	2	4		
3	4	2	î	2	2	1.	1	1		1	1	i	- 1	1		Ŷ	1	- 7	- 7	7	7	-	- 7		1	
4	1	1	1	1	1	1	1	1	,	1	1	1	3	1		1	3			•		- 1		1	1	
5	1	1	2	2	2	2	2	2	2	1	•	- Ý	i	2	6		4	3	2	2	<u>.</u>	2	- 2		,	
6	1		7	1	1	1	7	7	7		1	í	i	7	Ÿ	1	o	õ		ō	ñ	ô	0	o	7	
7	Ó	0	ò	0	0	ò	0	o	o	ó	o	ò	ò	ö	0	ó	ő	õ	0	ŏ	ŏ	0	c.	ő		
8	ĭ	- 1	1	•	ĭ	2	2	2	2	2	2	3	2	2	2		Ÿ	·	ŏ		٠	·	·	ĭ	ĭ	
ă		•	- 4	4		•	7	7	ô	•	2	5	3	2		1.0				- 1	- 1		1.0		4	
10	ò	ò	ò	ò		2	4	4	,	à	2	3	2				- 1	7	1	1	- 1	- 1	- 1	·	2	
	•	•	U	·		-	-	•	*	-	2	2	2	1	1	-1	,	31	1	3	1	1	1	,	2	
11	1	1	2	2	1	1	2	2	2	2	2	2	2	2	2	2	1	1.	1	5	:	197		•	2	
12	0	0	0	,	1	1	1	1	1	1	1	1	1	1	1	1	0	C	0	0	0	O	0	0		
13	0	0	O	0	0	0	0	0	1.	1	1	2	2	1	1	1	1	3	1	1	1	2	2	2	1	
14	2	2	2	2	3	3	3	3	3	2	2	1		1	1	1	0	3	1	1	1	1	1	- 1	2	
15	0	0	0	٥	0	0	t	1	1	1	2	1	2	2	2		1	3	1	- 1	1	1	1	1	1	
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	
17	1	t	1	1	1		1	1	1	1	1	1		1	0	0	0	0	0	0	o	0	0	0	1	
18	0	0	0	1	1		9	1	1	1	1	1	0	1	1	1	1	,	- 1	ō	ō	ō	1	1	1	
14 15 16 17 18	1	1	0	1	1	2	4	1	1	. 1	1	4		1	14	1	1	3		- 1	2		3	3		
20	3	2	2	1	2	2	1	1	2	3	3	3	3	3	i	1	2	1	1	1	1	2	2	ž	2	
21	2	2	2	,	1	340	4			1					o			o	0	(2)		1				
22	7	7	-	,	4	•	4	÷	4		100		- 4	- 1	٠											
23	2	2	ż	2	2	2	2	3	3	3	2	3	3	3	3	•				8		-	4			
24	3	3	2	3	2	2	2	2	3	2	3	2	2	3	3	-			- 2			?	- 7	- 7		
25	2	÷	3					•		•		-	-	- 1	~					- 2	4	1	2			
25	2	2	4			-	1	,	1				1	1		- 3	1	!	2	2	2	2	2		1	
21 22 23 24 25 26 27 28	•	•	- 2	2	2	-2	4	4	1	1	1	1	2	2	2	1	- 1	1	0	0	0	1	1	1	1	
27			1			1	1	1	1	1	2		1	1	1	1	- 1	- 1	1	0	٥	0	0	1	1	
28		1	1	1	- 1	1	1	٥	0	0	1	1	0	0	0		1	1	1	2	3	2	1	1	1	
29	1	1	0	0	0	0	1	1	0	0	0	O	1	1	••••		1	2	3	2	1	,	, 1	1	1	
MEAN	1	1	1	1	1	1	1	ī	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1.2	

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- S	ULPH	R DIO	XIDE							1	JNITS	- 0.0	DI PAI	RTS/MI	LLIO	N						
	STA	STATION - C NO 35050 MOE LAB RESOUR								S RD	ET	08100	Œ			MON	ř <b>H</b> - N	IAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1	0	1	1	1	0	0	1	1	0	1:	1	1	1	1	1	1		1	1	1	1		2	2	1
2	2	2	2	2		2	2	2	2	1	1	1	2	-11	1	1	1	1	1	1	1	1	0	1	1
3	1	1	1	1	2	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
4	1	1	1	2	2	1	2	2	2	2	3	3	2	2	2	2	2	2	1	1	1	2	3	2	2
5	2	2	3	3	2	3	3	2	2	3	3	3	4	3	2	2	2	1	1	1	1	1	1	1	2
6	1	-1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	4	4	4	5	3	2	2
8	2	1	1.	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	-1	1	1	1	1
9	0	1	1	2	2	2	2	2	1	2	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1
10	1	2	2	3	3	2	2	2	2	2	3	3	2	3	3	3	2	2	2	1	1	1	1	1	2
11	4	1	1	1	*	1	1	1	1	1	,	1	1	1	1	1	1.	1	0	0	0	0	o	0	ť
12	0	0	0	0	3	1	1	1	2	2	2	1	7	1	1	1	0	0	0	٥	0	0	0	1	
13	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	Ü	0	0	0	1	1	1	î	1
14	1	1	1	1	3	1	1	1	i	1	0	1	1	1	1	1	0	O	0	0	0	0	0	0	t
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	ō	1	1	1	0
16	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	ĩ	1	1	1	1	1
17		1	1	1	1	1	1	2	3	3	2	2	1	•	1	1	1	1	1	0	ò	0	0	0	i
18	0	0	0	0	0	0	0	0	ō	0	0	0	0	0	0	0	0	0	٥	ō	ō	ō	0	Ċ	0
19	0	0	0	0	0	0	1	1	1	1	1	1	1	,	1	2	3	2	1	ī	1	1	1	2	1
20	1	1	2	1	1	1	1	2	2	2	1	2	2	4	3	2.	3	1	1	1	1	1.	1	ī	2
21	1	1	1	1	1	1	1	1	7	1	0	٥	0	0	0	٥	1	ì	٥	0	0	0	1	Ť	1
22 23	1	1	1	0	0	0	1	1	i	1	2	1	1	1	1	1	1	1	1	1	1	1	1	•	1
23	0	0	0	0	0	0	0	0	0	0	0	1	1	î	1	1	Ť.	1	1	2	9	1	1	0	1
24 25 26	0	1	0	1	1	1	1	1	1	1	1	1	0	0	1		1	1	1	ō	2	0	0	0	1
25	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1		- 1	1	2	2	2	2	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	2	2	- 7	- 7	1	0	o	1
27	1	1	1	1	1		0	1	1	2	2	1	•	1	- 1	1	2	2	2	- 1	÷	- 1	1	1	1
28	1	1	1	ò	ò	0	0	1	1	1	1	1	1	1	1	1	1	2	5	1	i	1	1	19	1
29	1	1	1	1	1	1	1	1	•	ó	0	o	,	i i	ò	1	4	7	7	1				à	•
28 29 30	o	0	o	0	o	o	1	1	o	1	1	1	1	1	1	1	1	•	,	i	i	1	1	ī	1
31	1	t	1	Ť	i	3	1	1	0	0	0	o	0	0	0	٥	u	0	0	0	0	U	U	u	U
MEAN	1	t	1	4	1	1	1	1	1	,	1		1	1	,	1	1	1	1	1	1	i	1	1	1.0

PERCENTAGE OF DATA VALID -100.0 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.31 PARTS, MILLION WONTH - APR 80 MOE LAB RESOURCES RD ETOBICOKE STATION - C NO 35050 21 22 17 18 19 20 16 HOUR 9 10 11 12 13 14 15 1 2 3 4 5 6 7 8 9 10 2 1 0 0 0 0 0 0 0 0 C 11 12 13 14 15 16 17 18 19 20 0 0110102121 0:10102191 -0000000--00101011 0 .. 21 22 23 24 25 26 27 28 29 30 0 0 1 0110000000 00-0000000 0--0000000 0-0000000 0++0000000 0 0110001111 0000000 0.7 MEAN

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "." INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	p	OLL	LUTANT - SULPHUR DIQXIDE UN LTIGN - C NO 35050 MOE LAB RESOURCES RD ETOBICOKE														Q1 P4	RTS/A	ILLIC	N						
	s	TAT	ION		NO	35050	1	MOE L	AB RE	SOURC	ES RD	E	0810	KE			MOR	TH -	MAY	80						
HOUR	١		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	1		0	0	0	0	0	0	0	0	0	0		DATA	O I NVAL I NVAL	10 -	1	3		3	2	!	1	!		
6	••••	•••	• • •	•••	••••	••••	••••		****		••••	••••	****	••••			õ	0	2	2	2	2	2	2	2	0
7	Č		0	0	0	0	0	0	- 2	,	1	0	0	0	0	٥	000	0	000	0 0 0	0	0	0000	0	000	ŏ
	č		ŏ	0	0	0	0	0	000	0	000	ő	ŏ	0	0	ő	ŏ	ŏ	ŏ	õ	ŏ	ŏ	ō	0	0	o
10	ò		ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ō	o	1	• • • •	ō	0	1		1	1	2	1	0	٥	1	1	0
11 12 13	••••			•••								••••		DATA	INVAL	10	0	1	,	o	0	1	1	1	o	
15			0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	٥	٥	0	0	0	•
16			0	0	٥	0	٥	٥	0	0	0	0	0	٥	0	1	2 2	2	0 3 2	2 2	2 2	2	2	2	2	,
17	1		1	1	1	1	1	!	2	1	- 1	1	2	1	2	2	2	2	1	- 1	- 1		1	î	1	7
18	ď		,	0	- 1	ò	,	1	- ;	- 1	- 2	- ;	- 1	,	1	- 1	1	10	6	2	ż	- 1	i	1	1	1
20	č		ŏ	ŏ	ò	ŏ	ŏ	ò	ò	i	1	1	2	1	1	1	1	1	1	ī	1	1	0	0	0	1
21			0	0	0							٥	0	0	0		9	7	10	4	2	1	2	1	1	2
22		1	1	ŏ	ŏ	0	0	0	0	0	0	ō	ō			••••	• • • •	••••	• • • •	••••					••••	
23	1	1	0	0	0	0	0	0	0	0	0	0	,	1	3	4	4	4	3	3	2	2	2	2	1	2
24	1	1	1	1	1	1	1	1	1	1	1	_ 1	- 1	1	1	!	!	!	1	!	1	1	!			
25	1	1	1	1	0	0	0	٥	0	0	0	0	0	DATA	INVAL	10 -									***	
26 27																	1	1	1	1	1	2	1	1	1	
28		0	0	0	0	0	0	0	0	0	0	• • • •			****		••••		••••	• • • •	••••					
29	,	-												DATA	INVAL	LID -		_		_			_	-	2	
30	••••	• ••	•••	••••	••••	••••	••••	••••				••••					4	3	2	3	3	2	3	3	2	
31		2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	1	1	- 1	,	0	0	0	0	1
MEAN		0	٥	0	0	0	0	~ 0	0	0	0	0	1	1	1	1	2	2	2	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 58.6

PERCENTAGE OF DATA INVALID - 41.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. " INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES ERANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	c	NO	35050	- 1	40E LA	B RES	SOURCE	ES RD	ET	osico	KE			MON	th	ICN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1	1	1	,	0	0	0	1	1	1		o	0		1	1	*	1	1	1	,	¥	0	a	0	1
2	0	0	0	1	1	1	1	1	1		3	3	2	2	2		1	1	1		- 1	1	ī	ī	1
3	1	1	1	1		1.	1	1	1	0	1	•	1	1	1		1	1	3		0	0	-1	1	1
4	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	,	1	1	1	1	1	0	1
5	0	0	1	0	0	a	0	0	0	1	1	1	3	5	3	2	2	2	•	1	1	1	0	0	,
6	1	1	•	1	1	1	1	1	1	2	2	1	2	2	2	1	1	1	0	٥	0	0	0	o	ĵ
7	1	1	1	1	1	1	1	0	0	0	0	0	1	1	2	1	2	1	1	0	- î	1	1	1	1
8	1	1		1	1	1	1	1	1	1	1	1	0	0	0	1		1	1	0	0	0	O	0	1
9	0	0	0	0	0	Q	0	0	0	0	0	0	0	0	0	0	0	C	0	0	ō	0	0	O	0
10	0	0	0	0	0	0	0	0	0	0	0	0		-		0	O	1	o	ō	ō	0	0	0	0
1.1	0	0	0	0	0	0	0	0	0	0	1	1	9	ī	,	٥	0	1	0	0	0	0	0	Э	-
12	0	0	0	0	0	0	1	2	2	2	3	3	4	6	4	5	ô	5	3	2	2	3	2	2	2
13	1	0	0	0	1	1	1	2	2	1	2	2	2	3	2	4	3	3	3	3	3	2	2	1	2
14 15 16 17	1	1	1	2	2	2	2	2	2	2	3	4	3	3	2	2	2	2	2	ž	- î	- 7	1	0	2
15	0	1	1	1	0	0	0	1	1	1	1	1	1	1	ō	ō	č	ō	ō	ō	ò	o	0	o	ō
16	0	0	0	0	0	0	0	0	0	0	0	0		1	1	1	1	,	7	ĭ	ŏ	ŏ	0	ō	ō
17	0	0	0	0	0	1	1	1	1	1	2	3	4	3		3	2	2	- 1	2	3	2	7	ĭ	ĭ
18	1	1	1	1	1		1	1	1	1	1	2	1	1	1	ī	ī	7	•	î	•	- 7	i	1	,
19	0	0	0	0	0	0	1	1	1	1		3	2	2	3	3	3	2		i		÷	ì	,	
20	1	1	1	0	0	1	1	1	4.	•	1	1	1	ī	,	ī	ī	•	ĵ	i	•	ò	Ó	o	•
21	0	0	0	0	0	0	0	0	0	0	0	0	1	1	· ·	i	1	1	ï	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	1	2	2	3	2	2	,	2	2	2	2	3	2	2	ĭ	ĭ
23 24	1	0	0	0	0	1	1	1	1	1	1	2	2	3	3	5	5	4	ā	2	2	2	1	•	,
24	1	1	1	1	0	0	0	1	5	6	5	5	5	14	15	12	6		5	4	4	3	2		ā
25	1	1	1	1	1	0	1	1	2	2	3	4	11	15	6	6	5	6	4	2	7	ő	ō	4	
26	1	1	1	1	1	0	0	2	2	1	•	2	1			1	- 1	1	- 4	÷	9	ĭ	1	ò	7
27	0	0	0	0	0	o	0	0	õ	0	0	ō	o	Ó	0	ò	Ċ	ò	ò	ó	ò	ò	ò	ŏ	ò
25 26 27 28 29 30	0 0 0	0	0	0	00	0	0	0	ŏ	ō	ō	o	ŏ	ŏ	o	o	ŏ	ŏ	ŏ	ŏ	o	ŏ	ŏ	ŏ	õ
29	0	0	0	0	0	0	0	0	ī	ō	•	1	1	Ţ	1	,	1	÷	7	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
30	0	0	0	0	0	ñ	ó	0	0	1	1	1		o	ò	Ó	ò	ò	ò	ĭ	1	1	ĭ	ō	ö
MEAN	0	0	0	0	0	0	Ť	Ť	1	1	Ť	1	2	2	2	2	2	2	1	1	1	1	1	0	1.0

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.4

MOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

	POL	LUTAN	t . :	SULPH	UR DIO	301X							)	UNITS	- 0.0	)1 PAR	RTS/M	LLION							
	STA	TION	- с	NO	35050	,	MOE LA	B RES	SOURCE	S RD	ET	08100	KΕ			LONI	тн - ,	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 1 0 0 1 0 0	0 1 0 0 1 0 0 2 0	0 1 0 0 1 0 0 2 0	01000000	0100100000	0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 0 0 0 0 1 0	0011200000 10	0 1 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 2 0 0 0 1 1 0	3001	201103	10242021001000	2043202117	2043201133	2 0 5 3 2 0 1 1 1 3 0 0	2013100102	2013-00103-00	1 0 1 3 1 0 1 1 C 3	1 0 0 3 1 0 0 0 1 0 0	1002101001	20-2-0-001 00	20:::0-00-00	1 1 2 1 0 1 1 0 2
13 14 15 16 17 18 19	0 1 0 1 0	0 0 0 0 1 0	0 0 0 0 0 0	0 0 0 0 0 0	00100000	0 0 0 0 0 0	0 0 0 0 0 0	0 1 0 0 1 1 0	0 1 1 0 0 1 2 0	0 0 0 0 1 3 0	0 1 1 0 0 1 4 1	000431	000000000000000000000000000000000000000	0120014	200123	1 2 0 1 0 2 2	3201122	5 1 0 1 2 2 1	8 1 2 1 1 2	5 1 1 1 2 1	0 1 1 1 0 1 1	1 0 0 1	1 1 0 1 1 1	0 1 0 1 1	232100000
21 22 23 24 25 26 27 28 29 30	0 0 0 1 0 0	0000	000000000000000000000000000000000000000	1000000000	000000000000000000000000000000000000000	1000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	0000000000	000000000000000000000000000000000000000	100010000	1000110000	1000111:00	1100111000	0000	1001111000	1 0 0 1 1 1 1 0 1 0	1001	0 0 0 2 1 1 0 1 0	0 0 0 1 1 0 0 0 0	0001101000	0000101000	0000101000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000
31 MEAN	0	0	0	0	0	0	0	0	5 0	10	6	1	1	1	1	2	2	2	1	2 1	1	1	7	0	2 0.7

PERCENTAGE OF DATA VALID . 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS MILLION

	0.000				100	100																				
	ST	NOITA	• с	NO	35050	)	MOE L	AB RE	SOURC	ES RO	ET	08100	KE			MON	тн -	AUG	80							
HOUR	1	2	3	4	5	6	. 7	8	. 9	. 10	. 11	. 12	13	14	15	16	. 17	1,8	19	20	. 21.	22	23	. 24	MEAN	*
1	1	1	1	0	. 0	0	0	0	1	. 1	-1	1	1	1	11	1		1	1	1	1	0	0	0	1	
2	0	0	0	0	0	٥	. 0	0	0	0	. 1	1	2	2	2	- 1	*		1	1	1	0	0	0		à
3	ō	0	0	0	0	0	0	0	0	000	0	0	1	1	1	2	2	3	1	0	0	0	0	0	Q	,
4	0	0	000	0	000	0	000	o	0	0	1	1	0	1		0	7		1	1	1	1	1	1	1	
5	1	o	0	0	0	0	0	1	1	1	2	2	4	3	2	2	2	2	1	1	1	0	1	1	1	į.
	o	ŏ	0	0	0	0	0	0	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	į.
7	- 7	1	1	1	1	1	0	1	1	1	2	3	5	3	2	2	2	2	2	2	1	1	1	1	2	t .
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12																		1	1	1	1	1	1	0	*****	•
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15	ŏ	ŏ	ŏ	0	ŏ	ŏ	ő	ŏ	i	1	į.	i	1	1		1	1	1	0	0	0	0	0	0	C	,
13	~	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ò	o	0	à	0	0	0	٥	0	0	0	0	0	0	0	0	C	1
16 17	0	0	ö	000	0	0	0	ŏ	ŏ	ī	ĩ	1	1	1	1	1	1.	1	1	1	1	1	1	1	1	ĺ
18	ĭ	ř	٠	1	ĭ	ĭ	7	ĭ	ĭ	•	i i	1	2	2	4	8	4	3	2	1	1	0	0	0	2	į .
19	ò	ò	ò	ò	ó	ò	ò	ò	ò	ò	o	ò	ō	ō	٥	0	1	1	1	1	0	0	0	0		)
20	ŏ	ŏ	ŏ	ŏ	ŏ	1	ĭ	2	ĭ	ĩ	- 7	ī	1	2	ī	1	0	0	0	0	0	0	0	0	1	ľ
20	•	•	•	•		•		-	(2)	- 4				-		<u>*</u>										
21	0	0	0	0	0	0	0	1	1	0	5	1	1			0	0	0	0	0	0	000	0	0	C	
22	õ	õ	ŏ	0	0		0	0	0	0	0	0	2	2	1		1	1	0		0	0	0	0		١.
23	ō	ō	ŏ	ō	õ	o	ō	Ô	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0		)
23 24 25 26 27	ō	0	ŏ	0	0	0000	00000	0000	000	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0		1
25	0	0	0	0	0	0	0	0	1	1	1	1	2	3	4	4	3 2 2 0	2	2	2	2	1	1	1		į.
26	i	1	1	1	0	0		1	2	2	2	2	2	2	1	1	2	2 2	2	2	1	1	1	1	4	ļ
27	. 1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	3	2	2	1	1	1	1	1	0	- 1	
28	o	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	1	. 0	0	0	0		,
29	0	0	0	0	0	0	0	0	1	1	2	2	1	1	1	1	2	2	1	1	1	1	0	0	7	ł.
29 30	ō	0	ō	0	0	0	0	0	1	2	2	1	1	1	1	1	1	1	2	2	1	2	1	2	,	ě.
31	,	1	1	1	1	1	1	1	٥	٥	٥	0	0	٥	٥	0	0	0	0	0	٥	0	1	1		0
MEAN		0		0	0	0	0	. 0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.6	5

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 3.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POI	LLUTANT	- 5	ULP	HUR DIO	XIDE							i	INITS	- 0.0	1 PAR	118/21	LLIO	N:						
	ST	ATION -	C	NO	35050	MOI	LAE	RES	OURCE	S RD	ET	08100	KE			NON T	н - s	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 1 1	0000100011	0000100011	000000011	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0	0000000111	0001000121	0 1 0 0 0 1 2 1	0101000121	0 0 0 0 0 1 3 1	0 0 0 1 10 2	0006001620	0 0 0 1 0 0 1 3 2 0	1011001320	1022001010	1 0 2 3 0 0 1 22 1	1016001310	0 0 1 4 0 0 1 1 1 0	3 0 0 1 1 1 0	3000110	12000100	0 2 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 3 1 0
11 12 13 14 15 16 17 18 19	. 00000000000	000000000000000000000000000000000000000	0000001000	0000001000	0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	0000001010	10000011	1 0 0 0 7 3 0 0 2	1 0 0 1 0 2 3 1 0 2	001012002	00001001	1 0 1 0 1 0 2	1 0 0 1 1 2 0 1	1 0 0 0 1 2 0 2 0 1	1 0 0 1 2 3 0 1 2 1	1000022	1 0 0 0 1 2 0 0 2 1	100000000000000000000000000000000000000	10010010	0 0 0 0 0 0 0	10000000	10000	1000010000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	0000010000	00000	0000010000	0000000000	0000000	00000000	0000100001	0 0 0 0 1 1	0 0 0 0 1 0 0 0 1 1	0 0 0 1 0 0 1 1	0000100112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 3 0 0 1 5 2	1 4 0 0 2 0 0 2 1 2	2 1 0 1 2 0 0 2 2 2	2:10500123	0 6 0 0 1 3 3	2 1 0 0 4 0 0 1 7 3	0 0 1 0 0 1 3	1 1 0 0 2 0 0 0 1 3	20000	20002	100000000000000000000000000000000000000	0 0 0 0 0 0 0 2	000000000000000000000000000000000000000
MEAN	0	0	0	0	c	0	0	٥	1	1	1	1	1	1	1	1	2	1	1	1	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS : O OF PARTS/MILLION STATION - C NO 35050 MOE LAB RESOURCES RO ETOBICCKE VONTH - OCT HOUR 24 MEAN 2 3 4 5 6 7 8 9 N+00000-00 \*00000-4000000-2000000---20000000-5 -- 6.000000 40.00.00 20-00031 0-00-1 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 30 . . . ...0 ...0 ò :NVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA DATA INVALID INVALID INVALID 100-00-00000-000-00. MEAN 0.5

PERCENTAGE OF DATA VALID - 59.8

PERCENTAGE OF DATA INVALID - 40.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	+ S	ULPH	UR DIO	XIDE								UNITS	- 0.	01 PA	RTS/MI	LLIO	N						
	STA	TION -	c	NO	35050		MOE LAS	B RES	OURCE	S RD	ETO	BICC	KE			MON	TH - N	10V	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0025000010	0 1 1 3 0 0 0 0 0 1 1 0	0 1 1 2 0 0 0 0 1 0	0 1 1 2 0 0 0 1 0	0 1 0 1 0 0 0 0 1 0	0112000020	0 1 1 2 0 0 0 0 2 0	001200000	0011000000	0021001020	0 0 2 1 0 0 1 0 2 0	003-00-020	0 0 3 1 0 1 1 0 1 0	3101	0 0 3 1 0 1 3 2 1	0 0 2 0 0 1 2 3 1 0	002002300	0 0 0 0 1 3 0 0	0 0 2 0 0 1 1 0 0	0020000	0 1 2 0 0 0 1 0	3 0 0 0 1 0	0230000100	0210000-0	0 1 2 1 0 0 1 1 1
11 12 13 14 15 16 17 18 19	0 0 1 1 0 1 0 1 0	0 0 2 1 1 0 0 0 0	0021001000	0 0 3 1 1 0 1 0 0 1	0 0 2 1 1 0 1 0 0 1	0 0 1 1 0 0 1	00+0+0+000	001000000	0 0 0 3 0 0 1 2 0 0 0	0000013000	0:20014002	0	,	0 1 1 0 0 1	0 1 2 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31001	221101101	0 1 1 1 0 1 1 0 2	0 1 4 2 1 0 1 1 0 2	0 1 3 2 1 1 0 1 0 2	0 1 2 1 1 1 1 0 1 0 2	1 1 1 1 0 1 0 2	0 00	0 2 0 2 0 2	0 0 1
21 22 23 24 25 26 27 28 29	2 1 1 2 1 0 0 0 1 0	2 1 0 0 0 1 0	2 1 2 1 0 1 0 1 0	3 1 2 1 0 1 1 1	4 1 2 1 0 1 1 1 0	5 1 2 1 0 1 1 1 0 0	4 1 2 2 1 0 1 1	4 - 2 2 - 0 0 - 0 0	2 1 4 2 1 1 0 0 0 0	5 2 2 1 1 0 0 0	2 1 7 2 2 1 1 0 0	6 22 000	6 2 1 1 0 0 0	1 1 6 2 1 1 1 0 0 0	5	5 1	1 1 4 1 1 0 0 0 0 0	1 1 4 1 0 1 0 0 0 0 1	1 1 0 0 0 0 0 1	1 1 3 1 0 0 0 0 1	3 1000001	1 1 2 1 1 0 0 0 0 1	1 1 2 1 1 0 0 1	1 1 2 1 1 0 1 1 0 1	2 1 3 2 1 1 0 0
MEAN	1	1	1	ĩ	,	,	Ť	1	•	1		1	*	1	1	1	1	ī	1	1	1	ĭ	1	1	0.8

PERCENTAGE OF DATA VALID - 99.0

PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O C1 PARTS/MILLION

·	51	ATIO	N - (	NO.	35050	· .	MOE L	AB RE	SOURC	ES RD	E.T	0810	KE			1.10	NTH -	DEC	80							
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	_	MEAN	
i	0	0	0	٥	٥	0	0	0	٥	0	0	O	٥	0						••••		••••		••	*****	
															***	2	2	2	1	1	1	1	1	- 1		
				-					1	1	1	1		- 1	7	2	2	2	2	2	2	2	2	2	,	
3			3.		18	- :	- 6	- 4		- 4	Q.	- 3		1	1	1	1	1	1	1	1	1	1	1	1	
4	- 1		. 1									- 4		i i		grant a	. 1	1		2	2	2	2	2	1	
5	1	1	- 1	1	- 2	5.1	- 1		2	2		,	2	,		1	- 1		i	- 1	ī	1	1	1	2	
6	2	2	2	2	2	2	2	- 2	2				1			- 1			- 1	9	2	2	2	2	1	
7	1	1	1	1	~ <b>t</b>	1	•	- 1		1	- 2	- 1	- 1	- 1	- 1	- 1	·	. :		7	2	ñ	0	0	1	
8	1	1	1	1	1		. 1	1		1		1	- 1	,	1		1 0		- 1	ż	ŏ	0	ō	ō		
9	0												••••		• • • •	C			U		U	·	ĭ		1	
10	1	1	1		1	3	1	1	. 1	1	,	1	- 1	,	1		- 0	1	,	3						
			•	0	0			2	3	1	1	1	1	1	T T	c		0	0	O	0	0	٥	0	2	
11	- 1		0	ő	ĭ			7		i i	3	R	6	2	2		3 3	3	2	2	1	2	- 1	1	2	
12	0	٥	0	ŏ	ò	ò	ò	'n		- 1	- 7	ĩ	- 7	- 7		c		0	0	0	0			• • • •	^	
13	1	- 3	0	O	0	U	•		,			2.5	DATA	INVA												
14														INVA												
15													DAIA	THYM		2797219							0	0		
16											••••								•		•		1	1	1	
15 16 17	0	0	0	0	0	0	0	0	٥	0	٥	- 1		8	,		1 3		-		ó	î	ń	ò		
18	1	1	1	1	1	1	1	1	1	1	1	1		- 1	C			, 0	0	0	U		0 0	Š	ė	
1.9	0	0	٥	0	0	0	0	0	0	0	0	0	C	0				0	1		0	0		0	Ÿ	
20	ō	ō		1	1	1	1	1	1	1	1	1	1	1		1	1		,	0	0	0	0	U		
21	0				1	1	1	1	3	1	1	1	1		1	9	1 1		0	0		0	0	0		
22	ĭ	ĩ	- 4	,	2	1	1	2	3	3	2	2	3	3	4		4 :	3 3	4	2	3	3	4			
22		ė	ė			7	6	5	5	4	5		****	4	. 3	1 3	3 2	1	1	1	2	3	3	3	4	
23	3	9	9			2	2		- 7	1	•	1	1	1	ì		1 1	1	1	1	1	,	1	1	2	
24	3	3	3			î		ī	2	2	1	1	1	2			2 1	1	1	1	1	1	1	1	1	
25	- 1	1		- 1	- 2		4		5		2	ò	2	2	-		2 :	2 2	2	2	2	2	2	2	2	
26	2			1		2		3	- 1	É	4	3	5	5			1	1	1	2	2	2	2	2	2	
21 22 23 24 25 26 27 28 29 30	2	2		2		3	2 3 3	•	5	2 5 5	2 4 6	2 4 6 3	2 5	22 22 22 22 22 22 22 22 22 22 22 22 22	2		6 5		5	2 2 5 2	6	2 6	2 2 6 2	2 2 6	5	
28	3	3	3	3	3	3	3	4	4	4	4	2	3		1			5 5	3	3	5	2	2	2	3	
29	6	5	5	5	4	3	4	3	4											ō		ō				
30	3	2	2	2	2	2	2	2	2	2	2	2	2	2	3				Ü	٥						
31	0	c	0	t	1	1	1	1	1	1	-1	1	0			)	0 (	0	0	0	٥	1	1	1	1	
MEAN	1	,	1	1	1	1	,	2	2	2	2	2	2	2		2	2	1 3	1	1	1	1	1	ţ	1.4	

PERCENTAGE OF DATA VALID - 84.3

PERCENTAGE OF DATA INVALID - 15.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - LIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION - C	NO 35050 MOE LAB F	ESOURCES RD ETOBICGHE		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.7	2	8
FEB	28	1.2	3	8
MAR	31	1.0	2	5
APR	30	0.7	3	10
MAY	15	0.8	2	10
JUN	30	1.0	4	15
		0.7	2	14
JUL	31	0.7	4	
AUG	30	0.6	2	8
SEP	30	0.6	3	22
OC T	18	0.5	2	6
NOV	30	0.8	3	7
DEC	25	1.4	5	8
		0.8	5	22

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OF PARTS/MILLION

STATION -	С	NO	350	50		MOE	LAE	R	ESOU	RCES	5 R	D	ETO	BIC	SKE											
MONTH	00	TO	05	06	TO	10	11	TO	15	16	TO	20	21	TO	25	26	10	39	40	TO	49	50	SOVE	R	TOTAL	la la
JAN		39	736			2			0			0			C			0			0			0	73	8
FEB		9	79			3			0			0			0			0			٥			0	68	12
MAR			744			٥			0			0			0			0			0			0	74	14
APR		9	706			9			0			0			0			0			0			٥	71	5
MAY		Ą	430			6			0			0			0			0			0			0	43	6
JUN		9	701			8			5			0			0			0			0			0	71	4
JUL			735			6			2			0			0			0			0			0	74	3
AUG		19	717			1.			0			0			0			0			0			0	71	8
SEP		1	701			10			0			0			1			0			0			0	71	2
OC T		3	142			3			٥			0			0			0			0			0	44	5
NOV		Ja	708			5			0			0			0			0			0			0	71	3
DEC			506			21			0			0			0			0			0			0	62	7
YEAR		7	05			74			7			0			1			0			0			0	798	7

FREQUENCY DISTRIBUTION BY PERCENTILES

 PERCENT					CONCENT	TRATIONS					
OF DATA				FREQUENC	CY DISTR	BUTION.	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
90.9	0	0.0	0.0	0.1	0.6	1.6	2.2	3.6	5 1	22	0.8

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTAN	τ - :	SULPH	UR DIO	XIDE								UNITS	- 0.0	1 PAR	ets/MI	LLIO							
	STA	TION	- (	C NO	44008	,	4WY2/N	IORTH	SHORE	BLVD	E . B;	JRLING	TON			#ON1	тн	AN	80						
HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 1 0 0 3 1 1 0	0200113110	0 2 0 0 2 1 4 1 1 0	0 1 2 1 7 2 1 0	0 2 0 1 2 0 6 2 1 0	0 1 0 0 2 1 4 2 1 1	0 1 0 0 2 1 3 2 1 0	0 1 1 1 2 1 1	0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	010211110	1 0 0 3 2 1 1 1 1 0	100221110	0 0 0 1 2 1 1 2 1 1	0001311211	0 0 0 0 1 2 1 2 1 0	000101111	0000011	0000011111	0000011100	0000011100	0000011100	0 0 0 1 1 1 1 1 1 1	000002	0 0 0 0 0 3 1 1 1 1 1	0 1 1 1 1 2 1 1 0
11 12 13 14 15 16 17 18 19	1 1 3 2 0 1 1 0 0	1 1 3 1 0 1 1 0 0 0	1 1 3 1 1 1 0 0	3 1 1 0 0 0	1 1 2 2 1 1 1 1 0 0	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 0 1 1 0 0	1 1 1 1 1 0 0	1 1 1 0 1 1 0 0	1 1 1 1 0 1 1 0 0	1 1 1 0 0	1 1 1 0 0	2:11002100	3 1 1 0 1 2 1 0 0	4 . 1 . 1 . 0 . 1 . 2 . 0 . 0	4111012000	3111012000	2 1 1 1 0 : 1 0 0 0	2 1 2 1 0 1 1 0 0 0	1 3 1 0 1 1 0 0 0	31011000	230-1000	1 1 2 3 0 : 1 0 0 0	3 3 0 1 1 0 0 0 0	2 1 1 1 1 1 0 0
21 22 23 24 25 26 27 28 29	000011011	0 1 0 1 1 1 1	0 1 0 0 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1	0 0 0 0 1 1 0 0 1 1	0 1 0 1 0 1 1	0 2 0 0 1 0 1 0 1 2	0 1 0 0 1 1 0 0 1 2	0 1 0 1 1 0 0 1 2	0 1 0 1 1 0 0 1 2	0100100211	0 1 0 0 1 0 0 2 1 1	0 1 0 0 2 0 1 2 1 1	0 1 0 0 2 0 1 1 1 1	000020	0 0 0 2 0 1 1 1 1 1	0 0 0 1 0 1 1	0 0 0 0 1	0 0 0 0 1 1 1 1 1	0 0 0 0 1 0 1 1 1 1 1	0 0 0 1 1 0 1 1 1 1 1 1 1	0 0 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1
31 MEAN	1	1	1	1	0	0	0	0	0	D 1	1	0	0	0	1	1	1	1	1	1	0	1	1	1	0.7

PERCENTAGE OF DATA VALID -100.0 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS, MILLION MONTH - MAR 80 STATION - C NO 4400B HWY2/NORTH SHORE BLVD E. BURLINGTON HOUR 7 10 11 12 16 22 23 24 MEAN 13 17 18 19 20 21 0 0-0-00-0-N 0 1 0 1 0 11 12 13 14 15 16 17 18 19 000 0 00000-000-0000000000 0000-0000 0001001002 0001001002 0 0001001002 000-00-00N 0 NO00000000 00-000-000 0000031 00. 21 22 23 24 25 26 27 28 29 30 0000000000 0000000000 0000000000 0000-00000 0000-00000 00-0-00000 0000000000 0000000000 -000000000 0000000000 0000-00000 0000-00000 0000000000 000000000 0000000000 000-0000000 31 0

PERCENTAGE OF DATA VALID . 99.3

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PERCENTAGE OF DATA INVALID + 0.7

PERCENTAGE OF DATA UNAVAILABLE . O.O.

0.4

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### CNTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POL	LUTANT	٠.	ULPHL	R DIO	XIDE								UNITS	- 0.0	1 PAR	RTS/KI	LLIO	N.						
	STA	TION -		NO 4	4008	н	WY2/N	ORTH	SHORE	BLVD	E . BL	JRLIN	GTON			MONT	и т	EB	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 2 1 2 1 0 2 1	0 1 0 2 1 2 1 0 2 0	0 0 0 2 1 2 1 1 2 0	0 0 0 2 1 2 1 1 1 0	0 0 0 2 1 1 1 1 0	0002111210	1 1 0 1 1 0 2 0 0	1 1 0 1 1 0 2 1 0	1 1 0 1 1 1 0 2 1 1	010011010	0 1 0 0 1 0 2	0 0 0 1 0 0 1 1 1	0000	0 0 0 0 1 0 0 1 4 1	0000000111	0000001111	0100001	0-000000	0 1 0 0 1 0 0	2	1 1 1 0 2 0 0	1 1 2 0 0 2 0 0	1 1 2 0 1 2 : 0	1 1 2 1 3 1 1 1 2	0 1 1 1 1 1 1 1 1
11 12 13 14 15 16 17 18 19	0 2 0 1 1 2 0	1 0 0 1 0 1 1 1 3 0	1 1 1 1 1 1 1 4 0	1 1 2 0 1 1 1 4 0	1 1 2 1 1 0 1 3 0	1012110130	1 0 1 2 1 0 1 2 0	1 0 1 2 1 1 0 1 2 0	2 0 1 2 1 0 1 2 1	1012110110	1 1 2 2 1 1 0 1 2	1 1 2 2 1 1 0 0 1 0	1 0	1 1 1 1 0 1 1 1 1	1 0 0 0 1 1	1 0 0 1 1 0	1311100100	- 3-000-0	1 0 1 0 0 1 1 0	1 0 1 0 0 1 1 0	1 0 1 1 0	1 0 2 0 0	20011200	0 1 1 2 0 0	1 1 1 1 1 2 0
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 1	00000001	00000000	000000000	000000000000000000000000000000000000000	000000-0	00000000	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 1 0 0	1 0 2 0 0 1 0 0	00000000	0 0 0 0 0	0 0 0 1 0	102010000	000000	00000000	00-0000-0	001000000	001000000	00100000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00100010	0 0 1 0 0 1 0	0 0 0 0 0 0 0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	•	٥	0	0	C	0	1	1	1	1	0.6

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXICE UNITS - 0.01 PARTS, MILLION STATION - C NO 44008 HWY2/NORTH SHORE BLVD E. BURLINGTON WONTH - APR 80 HOUR 11 12 13 15 16 17 18 2 3 4 5 6 7 8 9 00. 00000000-0 -0000000 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 30 0-0000000-0 0-0000000-0 00000000-0 00000000-0 -00000000 0-000-000-0 0 0 1 o ò 2000:00000 00000-0000 -00000-11000-0000 .000000000 11010-0000 00-000000 00--00000 00--00000 

PERCENTAGE OF DATA VALID - 99.7

MEAN

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\*- INDICATES DATA IS UNAVAILABLE

3. "\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT		SULPHU	R DIO	XIDE							ı	INITS	. 0.0	T PAR	RTS/MI	LLICA	l						
	STA	TION -	(	NO 4	4008		WY2/N	ORTH	SHORE	BLV	D E.B	JRLING	TON			MONT	th · N	Α¥	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1,5	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	00001	0 0 0 1 1 0 1 0 0	0001111000	0 0 0 1 1 1 0 0 0 0	0 0 0 1 1 0 0 0 0	0 0 0 1 1 0 0 0 0	0 0 0 1 1 1 0 0 0 0	001110000	0 0 1 1 1 0 0 0 0	0 1 1 1 1 0 0 0 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000	1 1 1 1 0 0 0 0 0	1 1 1 1 0 0 0 1	00000	0 1 1 0 0 0 0 1	0 1 1 0 0 0 0 1	1 1 0 1 0 2 0 0 0 1	1 0 0 0 0 0 0 1	0000030001	0001010000	000-0-0000	000-0-0000	00000000	0 0 0 1 1 0 0 0 0 0
11 12 13 14 15 16 17 18 19	1000000000	1000000000	000000000	0000000000	000000000	0000000000	1 0 0 0 0 0 0 0 0 0	-000000000	000000000	1001010000	000000000000000000000000000000000000000	000-0000	000-0-0000	0001010000	000-0-00-0	0000-0000	000000000	0000000000	0000000000	000000000	0000000000	0. 300000000	000000000	0000000000	0000000000
21 22 23 24 25 26 27 28 29	0100001	0 1 0 1 1 1 0 0 1	0 1 0 0 0 1 1 1 0 0 0	0 0 0 1 1 0 0 0 1	0 1 0 0 1 1 1 0 0 1	0 1 0 0 1 1 1	0	0 1 1 1 1 1 0 0 0 0	0 1 1 1 1 1 1 1 0 0	0 2 1 1 1 1 1 0 0	1 1 1 0 0	0	0 1 1 1 0 0 0 0	0 1 1 1 0 2 0 0 0	0 2 2 1 0 4 0 0 0	50221001001	3011100000	1000000	1011100001	1 0 1 1 1 0 0 1 0 2	0 1 0 1 3	0 1 2 2	1 1 1 0 1 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31 MEAN	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	c	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.5

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - D OF PARTS MILLION POLLUTANT - SULPHUR DIOXIDE VONTH JUN 80 HWY2/NORTH SHORE BLVD E.BURLINGTON STATION . C NO 44008 24 MEAN 15 16 17 18 19 11 12 13 HOUR o 0-0000000 3 4 5 6 7 00-000 0 0 1 0 0 G о 3 000-0--000 12 13 14 15 16 17 18 19 20 -0000000 -000000 ... 22 23 24 25 26 27 28 29 0---0000 ò -0000 n MEAN

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. " INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGXIDE HWY2/NORTH SHORE BLVD E.BURLINGTON NONTH - JUL C NO 44008 22 23 24 MEAN HOUR 000000-00 0.000000000 00-0000000 -000000000 0000-0000 0000-0000-00000 0000-00-00-0-0000-0 CO 22 23 24 25 26 27 28 29 30 0000-000000 c 0.1 MEAN o

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0 01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE HWY2/NORTH SHORE BLVD E.BURLINGTON MONTH - AUG STATION - C NO 44008 24 MEAN HOUR .000000 0000000. 000000--2 3 4 5 6 7 8 9 10 0 0 0 1 0000-000 -00000000 0-0000000-0 12 13 14 15 16 17 18 19 20 0300000--0 0000000--0 00000000-0 00000000-0 0.0000000000 -00000000 0-0000000 o ò ò ò ò O 1 DATA DATA DATA DATA 22 23 24 25 26 27 28 29 30 O 1 ! NVALID c NVALID NVALID 1 0 1 0 1 ò n 0.3 n n MEAN 

PERCENTAGE OF DATA VALID - 84.4

PERCENTAGE OF DATA INVALID - 11.6

PERCENTAGE OF DATA UNAVAILABLE - 4.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	NT -	SULP	HUR DI	OXIDE								UNITS	. 0.	01 PA	RTS/N	ILLIC	N						
	ST	ATION		C NO	44008	1	HWY2/1	NORTH	SHORE	BLV	D E.	BURLI	NGTON			NON	TH -	SEP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	1 1 0 1 1 0 0 0	1 1 0 1 0 1 0 0 1	1 0 0 0 0 1 0 0 0	1	1	1 0 1 0 0	1 1 1 0 1 0 1 0	1 1 1 1 0 1 1	1 1 0 0 1 0 1 1	1 0 1 1 1 1 1 1	1 1 0 1 1 1 0	000		000	0000	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00011	2 1 0 C	0 1 0 1 0	0 1 0 1 0	1 1 0 0 1 0 0 0	1 1 1 1 0 1 0	1 0 0 1 0 0 1 0	100010010	0000
10 11 12 13 14 15 16 17 18 19	0 0 0 0 1 2 1 1	0 0 0 0 0 0 1 2 1 1	0 0 0 0 0 0 1 2 1 1	0	0 0 0 0	0 000000000	0 0 0 0 1 0 0 3 0 1	0 1 0 1 0 1 2 1 1	0 0 0 1 1 1 2 1 1	0 0 0 0 1 2 2 3 1 1	0 1 1 0 1 3 3 2 1 1	0 1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 2 3 1 1	34	1 0 1 2 3 2	10012311	0 1 3 1 1	3001	0	0	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	1 0 1 2 1 2	0 1 3 0 1 1 2 2 1
20 21 22 23 24 25 26 27 28 29 30	1 0 1 1 1 0 1 1 0 0	0 0 1 1 1 1 0 1 1 0 0	000111110011211	0000	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 2 0 0 1 1 1	0 0 1 2 2 0 1 1 1 1 1	0 1 2 2 1 1 1 1 1 1 1	0 0 1 1 2 1 1 1 1 2 2	0 0 1 2 2 1 1 1 1 2	0 1 1 2 2 1 1 1 1 2 2	0 1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2	1 3 1 1 2 0 0 1 2 0 0 1	1 2 1 1 2 0 1 1 0 1	1 1 1 1 0 1 1 1 0 0 1 1	1 1 1 0 1 2 0 1	1 1 1 1 1 2 2 0 1	0 1 2 1 1 0 1 2 0 3	1 0 1 1 1 1 0 1 2 1 2	1 0 0 1 1 2 0 1 1 1 1 1 1	1 0 1 2 1 2 1 1 1 1 1 1 1	1 0 0 2 1 1 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1 2 2	0 1 1 2 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MEAN	1	1	1	1	1	1	1	1	ī	1	1	1	£	1	1	1	1	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 93.1

PERCENTAGE OF DATA INVALID - 6.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - OCT 80 HWY2/NORTH SHORE BLVD E.BURLINGTON STATION . C NO 44008 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN HOUR - DATA INVALID -- DATA INVALID -- DATA INVALID -5 6 7 8 9 0011 1 0 1 1 0 0 1 002 0 0 2 002 0 5 11 12 13 14 15 16 17 18 19 20 0000-0000 0 ò 0 00-00 00 0 00 00 0 0 21 22 23 24 25 26 27 000 0 0 0 0 ٥ 0 0 0 00 00 28 29 30 0 1 1 0 1 1 31 0 1 MEAN 1

PERCENTAGE OF DATA VALID - 82.9

PERCENTAGE OF DATA INVALID - 17.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

. ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	PO	LLUTA	NT -	SULP	HUR D	IOXIDE	E.							UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	ST	ATION		C NO	4400	8	HWY2/	NORTH	SHORE	BLVC	E.8	UALIN	GTON			MON	TH - 1	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
2	0	1 0 1	,	, ,	1	1 2	1 1 1	0 2	0 2 0	0	0	1 0 10	0	0	0	0	1 0 6	1 1 6	1 1 5	0 1 5	0 1 5	0	1 6	7	5
4 5 6	0	3 0 1	0			0		0	0	300	0	0	0	0	0	;	0 1 1	0	0 !	010.	1	1	1	1	9
7 8 9	1 1 1	1	1			1	1 2	1	2	1	0	0	200	0	1	0	0 1 0	1	0	1 0	1	1	1 0	1	1
10 11 12	1	1	•••		1 1	1	1 3	1 3	0 3	1 4	1 2	1 2	1	1	1 0	1 0	1	2	1 0	1	1	1	0	0	1
13 14 15 16	0	0			1 1		1 0	3	2 .	2				000	0000	000	0	0	10	1 0 2	1 0	0	0	0 0 2 3	0
16 17 18 19	0 2 1	0 2 0 0		9	3 3	0 2	0	2	0	0	100	0000		00000	0000	0	000	00	0	0	0	000	0	0	0
20	0	0			4 9	0	1	1	ī 1	1	0	0	1	1	0	0	0	1	0	1	3	0	0	0	1
22 23 24 25 26 27 28	0	0		0	1 3	0	0	2	3 .	1	!			INVAL		•			••••	°	•	•	0	••••	
29	1	2	•••	1	0 (	0	2 1	2	1	0	1	0 1 1 0	1 1	1	1	0	1 1 0 2	0	1	1 0 1	1 1 0	1 1 0	1 0	1 0	1
MEAN	1	1		1	t.	, ,	1	1	1	1	,	1	1	,	1	ì	1	1	i	1	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 87.9

PERCENTAGE OF DATA INVALID - 12.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR CLOXIDE

	STA	TION -	CN	0 4400	8	HWY2/	NORTH	SHORE	BLVD	E. 8	URLIN	GTON			MON	TH - 1	DEC	80						
HOUR	1	2	3	4 5	5 6	5 7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	IEAN
1 2 3 4 5 6 7 8 9	1 1 0 0 1 2 1 0 0 0	1 1 0 0 1 2 1 0 0 1	1 1 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1 1 1 1 0 0	1 1 0 2 2 2 1 1 0 0	1 1 0 2 2 2 1 1 0 0	1 0 2 2 2 1 1 0 0	1 2 0 2 2 0 1 1	1 1 0 0 0 1 1 0 0	1,0000-0-0	**********	1 4 0 0 0 0 0 1 0 0 0	1 0 0 0 0 1 0 0 0	1-0300-000	000000000	1 2 0 1 0 0 0 0	2001001010	1001101000	1000111000	1 0 0 1 0 0 0	1 0 0 0 1 2 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11 12 13 14 15 16 17 18 19	0 1 0 0 0 1 0 0 0 0	0 0 0 0 1 0 0 0 0	10001010	0 0 0	) (	1 0 0 0 1 1 0 0	0 1 0 0 1 0 0	0000000	0 0 0 1 1 0 0 0 0	0 2 0 0 0 0	0 2 : 0 1 1 1 0 0 0	0 2 1 0 2 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 : 0 0 0 0 0	0100100000	0-00-00000	0-00000000	. 0 0 0 0 0 0 0 0 0	0 1 0 0 2 0 0 0	1 0 0 0 0 0 0	1 1 0 0 0 0	110020-000	1100201000	0 1 1 0 0 0 0
21 22 23 24 25 26 27 28 29	0 1 2 1 0 1 1 2 4 1	0 1 3 1 0 0 1 3 3 1	1 4 1 0 0 1 3	0 0 1 1 5 5 1 1 0 0 0 1 1 1 3 3 3 4	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 1 0 0 1 1 1 3 3	0 1 4 1 0 1 2 3 4 1	0 1 4 1 1 1 1 3 3 3 4 1	0 1 3 1 1 2 3 3 1	0 1 2 0 0 1 1 3 3 3 2	0 1 2 0 0 1 2 2 2 1	0 0 0 1 1 2	0 2 2 0 0 1 1 3 2 1	0 2 1 0 0 1 3 1 1	0 1 1 0 0 1 1 4 1 1	0 1 1 0 0 1 2 4 1 0	0210011310	0 1 1 0 1 1 3 1 0	0 1 1 0 0 1 1 4 1 0	1 2 2 0 0 1 1 4 1 0	1 2 2 0 0 1 1 4 1 0	0 2 2 0 0 1 1 4 1 0	0 2 2 0 0 1 1 4 1 0	0 0 0 1 1 3 2 1
31 MEAN	1	0 .	1	1 1	1	1	1	0	0	0	0	0	0	1	0	0	3	1	0	0	1	1	ن 1	0.7

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION -	C NO 44008 HWY2/NORTH	SHORE BLVD E. BURLINGTON		
MONTH	, NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.7	2	7
FEB	29	0.6	2	4
MAR	31	0.4	2	8
APR	30	0.1	t	5
MAY	· 31	0.4	1	5
JUN	30	0.3	1	3
JUL	31	0.1	Ī	2
AUG	26	0.3	Í	2
SEP	27	0.8	2	4
ост	24	0.5	2	5
NOV	26	0.9	5	10
DEC	31	0.7	3	5
YEAR	347	0.5	5	10

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 FARTS/MILLION

The second second									
STATION -	C NO 44	908 HWY	2/NORTH SH	ORE BLVD E	. BURLINGTO	N			
MONTH	00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 TO 39	40 TO 49	50 GOVER	TOTAL
JAN	742	2	0	٥	0	٥	٥	0	744
FEB	691	٥	0	٥	0	٥	0	0	691
MAR	737	2	0	0	0	0	0	0	739
APR	718		0	o	0	0	0	0	718
			0	0	٥	0	٥	٥	740
MAY	740		٥	٥	0	0	٥	0	716
JUN	716						0	0	742
JUL	742	0	0	0	0		٥	0	628
AUG	628	0	0	0	0				
SEP	670	0	0	0	٥		5	ن	670
oct	617	0	٥	0	0	0			617
NOV	623	10	0	0	0	0	0	0	633
DEC	739		٥	0	0	0	0	0	739
YEAR	8363	14	0	0	0	0	٥	0	8377

FREQUENCY DISTRIBUTION BY PERCENTILES

| CONCENTRATIONS | PERCENT | FREQUENCY DISTRIBUTION | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT | PER

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	.UTANT	- s	ULPHI	JR DIO	301x								UNITS	- 0.0	1 PAR	TS/MI	LLIO	N						
	STAT	ION -	c	NO 4	44010	-1	298	REBECCA	ST	OAKVI	LLE					MONT	н	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	
1 2 3 4 5 6 7 8 9	0 0 0 1 0 1 2 0 0 1	0 1 1 1 2 0 0 1	0201211001	1 2 0 1 2 1 1 0 0 1	1 1 0 1 2 1 2 0 0 1	1 1 2 0 2 0 0 1	1 2 0 1 1 0 1	0 0 2 0 1 1 1 0 1	0 0 0 2 0 1 1 1 0 1	0 0 3 1 1 1 1 0 1	0 0 0 4 3 1 0 1 1 1	0 0 3 3 1 0 1 0 1	1 0 1 3 1 0 1	0 0 1 2 1 0 1	0 0 0 1 3 1 0 1 0 1	0 0 0 1 1 0 1 0 1	000000101	1 1 0 0 0 0 2 0 0	0000000000	0000011100	0 0 0 0 1 1 0 1 0	0010011	0 1 0 0 2 1 0 1 1	0 0 1 0 2 1 0 1 1	0 0 0 1 1 1 1 0 1
11 12 13 14 15 16 17 18 19	2 0 1 1 0 0 1 0 0	101210000	1 6 1 2 1 0 0 1	1022100100	1 2 0 0 0 0	1011100000	0 0 1 2 1 0 0 0 0 0	0 1 2 1 0 1 0 0 0	0011101000	2000	0:11210100	0:11100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 0 0	2010111000	2010011000	1011000	0 0 1 1 0 0 0 0	0011012000	0 : 1 1 0 0 0	3001000	0 1 4 0 0 1 0 0 1	3 1 1 0 0 1	1 2 1 1 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 1 1 0	0 1 0 0 1 1 0 0	0 1 0 0 0 1 0	0 0 0 0 0 1	0 0 0 1 1 0 0 1 2	0000120011	0 1 0 0 0 1 2	0100000011	0 2 0 0 0 0 0 1 1	0 1 0 0 0 1 1	0 1 0 0 0 1 1	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 2 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01002000-0	0100100020	0000000000	100000000	120000010	1,0000000	1 0 0 0 0 1 0 1 0	2 1 0 0 0 0 1 0 1 0	0 1 0 0 1 0
31 MEAN	0	0	0	0	0	0	1	1	0	0	0	•	1	0	,	1	٥	0	0	0	0	0	1	1	0.5

PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. . -</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - C NO 44010 1298 REBECCA ST OAKVILLE WONTH - FES 80 2 / 3 4 9 10 12 13 14 15 16 17 18 19 21 22 23 24 MEAN 1 2 3 4 5 6 7 8 9 0001120101 0000000-0-0000000000 00000000000 000000-000-0-00010-010-00000 0 0110 0010 0000 0 00 0 1 2 2 1 3 2 2. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 2025222230 2033222330 0151222101 1 3 2 2 0 0 0000001 0 0 0 0000100000 0000-00000 000000000 000100100 000000-00 000000 0011 0011001 00000000 001000000 00-000000 0011 000000000 -040000 900000 000000

PERCENTAGE OF DATA VALID - 99.3

MEAN

PERCENTAGE OF DATA INVALID . 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

3 0 0 0 0 1 1 1 0 0 0 0 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0		POL	LUTANT	- s	ULPH	UR DIO2	KIDE								UNITS	- 0.	Q1 PAR	RTS/MI	LLIC	N						
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		STAT	TION -	С	NO ·	44010	1	298	REBECCA	ST	OAK	VILLE					MON	TH - N	AR	80						
4 1 2 3 2 1 1 1 1 1 1 2 1 1 1 1 1 0 0 0 1 1 1 1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	: 8	19	20	21	22	23	24	MEAN
DATA UNAVAILABLE   DATA UNAVAI	2 3 4 5 6 7 8 9	1 0 1 0 0 0 0	0 2	1 0 3 1 0 0 0 0	1 0 2 1 0 0 0 0	1 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 1 0 0 1 0 0	1 1 2 0 0	0 1 1 0	4 0 2 1 0 1 0 0	1 2 1 0 0	0 1 1 0 1 0 1 0	200	!	0 2 1 1 0 0	0111000	0 + 0 0 0 0 0	7	5	1 0 0	0 3 1 0 1 0 0 0	0 2 1 0 0 0 0	00000000	00000000	0 1 1 1 0 0 0 0 1
22 - DATA UHAVAILABLE - 23 - DATA UHAVAILABLE - 24 - DATA UHAVAILABLE - 25 - DATA UHAVAILABLE - 26 - DATA UHAVAILABLE - 27 - DATA UHAVAILABLE - 28 - DATA UHAVAILABLE - 29 - DATA UHAVAILABLE - 29 - DATA UHAVAILABLE - 30 - DATA UHAVAILABLE -	12 13 14 15 16 17 18	o	0	O	0	0	0	0	0	0	0	0	- DA1 - DA1 - DA1 - DA1 - DA1 - DA1 - DA1	1 A UP	AVALLA AVALLA AVALLA AVALLA AVALLA	ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE		*	٠	•		٠	-	٠	) <b>.</b>	
	22 23 24 25 26 27 28 29 30												- DA1 - DA1 - DA1 - DA1 - DA1 - DA1 - DA1 - DA1 - DA1	14 U:	AVALLA AVALLA AVALLA AVALLA AVALLA AVALLA AVALLA	ABLE ABLE ABLE ABLE ABLE ABLE ABLE ABLE										
MEAN 0 0 0 0 0 0 0 1 0 1 1 1 1 1 1 1 0 0 1 1 1 0 0 0 0.5	MEAN	0	0	٥	0	ű	0	0	1	o	1	1	- 04	יט או	1	1		0	0	1	1	1	0	0	0	0.5

PERCENTAGE OF DATA VALID - 33.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 66.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

## UNITS - 0.01 PARTS/MILLION

STATION .	C NO 44010 1298 R	EBECCA ST OAKVILLE		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR WAXIMUM	MAXIMUM READING
JAN	31	0.5	2	4
FEB	29	0.9	3	7
MAR	10	0.5	1	6
YEAR	70	0.7	3	7

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY	GROUP	FREQUENCY	DISTRIBUTION	FOR	1980

MONTHLY G	ROUP	FR	EQUE	ENCY	015	TRI	BUT	ION	FO	19	80													
POLLUTANT	- su	LPH	ŲR (	xoıc	IDE											UN	ITS	- 0	.01	PAR	RTS.	M:L	LICN	
STATION -	С	NO	440	010		129	8 R	EBE	CCA	51	OA	KVIL	LE											
MONT	н 00	TO	05	06	то	10	11	TO	15	16	TO	20	21	TO	25	26	TO	39	40	TO	49	50	SOVER	TOTAL
JAN			735			0			0			o			0			0			0		0	735
FEB			684			7			0			c			O			0			¢		0	اون
MAR			246			1			0			0			0			0			ō.		٥	247
									0						c			٥			۵		٥	1673

	ION BY	PERCENTILES		73		TRATIONS					
OF DATA VALID	MIN	10	30	FREQUENCY				98	99	MAX	ARITH MF AN
76.6	0	0.0	0.0	0.0	0.5	1.5	2.0	3.0	3.8	7	0.7

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS MILLION

	STA	TION -	С	NO 4	44015	BR	ONTE	RO/w	OBURN	CRES.	. 04	KVILLE				NO.	TH	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	: 7	16	19	20	21	22	23	24 M	IEAN
1 2 3 4 5 6 7 8 9	i	. 1		•	. 2	1	. 2	-		į	. 0	- DATA - DATA - DATA - DATA - DATA	X X X X X X X X X	AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA	BLE BLE BLE BLE BLE BLE		1 2	0 2	0 2	0 2	0 3	0 2	0 2	0 -	2
11 12 13 14 15 - 16 17 18 19	0 0 0 0 0 0 0 1 0 0 1	00005001	0 0 0 1 5 0 0 1 0 0	0 0 0 0 3 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 1 0 0 0	0 1 0 0 4 0 1 1 1 0	0 1 0 0 2 0 2 1 1 0	0 0 0 0 5 0 3 1 2 0	0 0 0 3 0 2 1 3 0	0000503110	0	00.401	0 1 0 0 3 0 0 1 1 1 1	0200400101	1 0 0 3 0 1 0 1 0	1 1 0 0 3 0 1 0 1 0	1 1 0 0 2 0 1 0 1 1	0 0 0 0 1 1 1 0	10000	0000012110	0 0 0 1 0 1 2 0 1 0	0 0 1 0 1 0	0 0 0 2 0 0 1 0 1 0	0000001110
21 22 23 24 25 26 27 28 29 30	1 1 1 0 0 0	1 2 1 1 1 1 1 0 0 0 0	1 1 1 1 1 0 0 0 0 0	1 1 0 1 1 1 0 0 0 0	0 1 1 1 1 1 1 0 0 0 0	1 1 1 1 0 0 1 0 0 0 0	1 1 0 1 0 0 0 0 0	(100000	0110131000	0 0 1 0 1 3 2 0 0 0	1 0 1 1 3 0 0 0 0	1 ***	1 1 0	0 0 2 1 0 0 0 0 0	1001110000	0 0 1 1 1 0 0 0 0	0 0 2 1 1 0 0 0 0	1 0 1 1 0 0 0 0	1 0 0 0 0 0	1 0 1 1 1 0 0 0 0	1 0 1 1 1 0 0 0 0 0	1 0 1 1 1 0 0 0 0 0	1 0 1 1 1 0 0 0 0 0 0	1 0 1 1 0 0 0 0 0	100000
MEAN	1	ţ	1	1	1	1	1	ţ	1	1	1	1	4	1	i	1	Ť	1	1	1	. 1	1,	0	v	0.6

PERCENTAGE OF DATA VALID - 70.1 PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 28.5

- NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTA	NT -	SULP	HUR D	0X10	£							UNIT	• • •	O1 PA	DTS/M	71110	N						
	ST	ATION	٠ - ٥	NO	4401	5	BRONT	E RO	WOBUR	N CRE	s. 0	KVIL	.ε			MON	тн -	MAY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24	MEAN
1 2 3	0	0	0	0	0	0	0	0	0	0	0	••••	••••		Î	:	1 0	1	1	. 0	1 0	1	1	1 0	1
4 5 6	0	1 0 0	1	0 0 3	0	0	1 0 1	1 0 1	0 1	0 0	.0	!	0	0	00	0	000	0 0 2	0 0 2	4	0 1 1		0	0	0
8 9 10	::::		::::	::::	::::	::::		::::	::::	::::	••••	::::	DATA O O	I NVA	0	0	o 1	0	0	0	0	0	0	1	:::::
11 12 13	0	0 0	0000	0	0 0	0 0 0 0	0 0 0	000	2 0 0 1	5 0 0 1	5 0 :	2 3 1 0	0 0 2		0 0 0 1	00000	00000	00000	00000	0 0 0 0	00000	0 1 0 0	00000	00000	0 0
15 16 17 18 19	0	0	0	0	0	-		0	0	0	1	0	0	2 0 INVA	!				0	0				••••	
20	****	****	••••	••••		••••	••••	••••	••••	••••	••••	••••	0	0	0	٥	0	0	0	1	1	0	0	٥	
21 22 23 24 25 26	0 0 1 0 0 0	001000	0000	0 0 0	0 0	0	0 1 0 0	0 1 0 0 0	001000	0 1 0 0	1 1 0 0		0 1 2 6 0	1 2 6 0	0	3 1 2 0 0	1 1 0 0	1 0 0	1011000	6 0 1 0 0 0	001000	0 1 0 0 0	0 - 0 0 0 0	0-0000	0
27 28 29 30	0 1 1 0	0	1	0	0	0 1 1	0	0 0 0	0	1 0	0 2	0	1 1	0		0 0 2	0 7	0	0 2	0	0	0 1	3	1	0
31 MEAN	0	1	2		0	,	4	0	6	5	9	3 1	5	6	1	0	0	0	0	0	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 77.8 PERCENTAGE OF DATA INVALID - 19.0 PERCENTAGE OF DATA UNAVAILABLE - 3.2

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	51	TATIO	N - C	NO	44015	i	BRONT	E RD,	/woBu F	N CR	<b>5</b> . 0	4KV1L	LE			WO5	тн -	JUN	80							
HOUR	1	2	3	4	5	6	7	8	9	10	33	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	a	0	0	0	0	0	0	0	c		0
2	0	0	0	0	0	0	0	0	0	1	4		1	. 1	1	1	1	0	0	0	0	0	0	0		0
3	0	0	0	0		0	0	0	0	0	0	0		0	0	O	O	C	0	1	0	0	0	0		0
4	0	0	0	0	0	0 0 0	0	0	0	0	0			0	0	٥	0	0	0	0	0	0	0	0		0
5	0	0	0	0	0	0	000	0	0	0	0	0	0		0	0	0	G	0	0	0	0	0	0		0
6	0	0	0	0		0	٥	0	-1	1	0			0	0	0	1	O	0	1	1	0	0	C		ō
7		0	0	0	0	0		0	0	0	0	0			0	0	0	0	0	0	0	1	0	0		0
8	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	D	٥	D	0	1		0
9	1	1	0	0	0	1	4	5	2	1	0			0	0	0	0	C	0	0	0	0	0	0		1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	C	ı	0
1.1	0	0	0	0	0	0	0	0	0	0	0	0	٥		٥	0	0	0	0	0	0	0	٥	C		0
12	0	0	0	0	0	0	1	1	2	1	1	1	3	0		3.0	1	2	3	2	2	1	2			•
13	1	1	1	2	1	1	6	9	3	8	5			6	2	2	3	5	4	5	2	2	2	2		3
14	3	2	3	2	1	1	1	4	10	10	6	6		1	4	5	G	1	0	0	0	0	0	0		3
15	1	0	0	0		0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	9		0
16	0	0	0	0		0	٥	0	1	1	1	0		0	1	1	1	- 1	0	0	0	0	0	9		0
17	0	٥	٥	0	0	0	1	3	4		1	0	1	1	0	٥	1	2	3	. 1	6	6	3	3		2
18	1	,	2	1	2	6	9	5	4	3	5	4	1	1	1	1		0	٥	0	0	1	0	9		2
19	0	٥	٥	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1		**
20	0	٥	٥	٥	****		••••						****		1	,		1	1	i.	1		1	1		
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	,	1	1	1	1	1	1	1	1	1		1
22	0	0	1	٥	0	0	1	1	2	1	- 1	2		2	2	3	3	2	2	2	3	3	- 1	- 1		1
23	3	2	2	2	3	3	3	3	3	2	2		1	2	2	4	7	3	2	3	2	2	1	2		4
24	0	0	1	1	1	0	1	2	2	3	4	4	3	3	3	3	3	3	3	3	3	2	3	-		2
25	4	3	3	2	- 1		1	2	. 2		2	3	3	3	3	10	8	3	3	4	2	2	,			3
26	2	2	2	2	3	4			10	8		8	9	9	9	10		?		4				1		
27	3	1	1	- 1	- 1	1	3	1	- 1	3	1		2.71													
28													DATA	INVAL												
23 24 25 26 27 28 29										****			0414	O		0	0	0	0				0	0		
700					7503	200		5 5/5/5	0 = 3/5	W2 8 2				-	0	-	-		,			- 00				
MEAN		1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	2	1	1	1	1	1	1	,	1	. 1

PERCENTAGE OF DATA VALID - 87.8 PERCENTAGE OF DATA INVALID - 12.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	. SL	LPHU	DIOX	IDE							U	NITS	- 0.0	PAR	TS/MI	LLION	Ĺ						
	STAT	TION -	c	NO 4	4015	86	ONTE	RO/WC	BURN	CRES.	OAK	VILLE				MONT	н - ј	UL	80	1					
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	000000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 0 0 0 0 0 0 0	000000000	0000000000		0000000000	0 0 1 0 0 0 1 0 0 0	1 0 1 1 0 1 0 1	2 0 1 1 1 0 0 1 0 0 1	3 0 0 2 1 0 0 1	1 0 0 0 0 1	1 2 1 0 0 0 0	0 0 1 0 1 0	1 0 2 1 0 0 1 0 0 0	20-000000	20001000	1 0 0 1 0 0 1 0 0 0	1 0 0 1 0 0 2 0 0 0	0 0 1 0 0 1 0 0 2	0 0 0 1 0 0 1	0 0 0 1 0 0 1	-000000000	0000000000	1 0 0 1 0 0 0
11 12 13 14 15 16 17 18 19	000010000	0 0 0 0 1 0 1 0 0 0	0000101000	0000100000	000000	0000-00000	0 0 0 0 0 0 0	0001100001	0 0 1 1 0 0 0 0 0	000000000000000000000000000000000000000	0 0 1 2 0 0 0 0 3 0	000000000000000000000000000000000000000	0001-00020	0001200040	0000000000	0000000	000000000	00000000	0001	0010000001	000000000	000-000000	0000000000	000-000000	0 0 0 1 0 0 0 1 0
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	000000000	0000000000	0000000000	100000000	00000000	0000-00000	0 0 0 0 1 0 0 0 0	0000000000	0000000	000-0000	1 0 0 0 1 0 0 0 0 0	100010000	0 0 0 0 1 0 0 0 0 0	0000000000	00000000000	000000000000000000000000000000000000000	0000-00000	000000100	0000000000	00000000000	0000000000	000000000000000000000000000000000000000
31 MEAN	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
me wa	v	•	•		•	•		•	9	•			-	-	•	**		•	•	•	•	•			

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . 0.31 PARTS WILLION

													_												
	ST	TATION	- c	NO	44015	5	BRONTE	RD/	WOBUR	N CRE	5, 04	KAILL	-			3:UN	тн	AUG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	TT.	12	13	14	15	16	17	18	19	50	21	22	23	24	MEAN
1 2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	0	0	073	0	0	0	0	0	0	0
3 4 5	0	0	0	1 0 1	0	0	0	1	1	1	1	1	!		0 2	0	2	0	0	0				!	0
6 7 8	1 1 0	1	1 0	0 0	1 0	1 1 0	2 2 0	2 2	6 4 0	6 4 0	7	1 0	1 0	2 0	: 6 1	11 6	13	7 0	0 5 0	0 0 0	0	0	000	0	3 1 0
10	1	ō	0	ō	0	0	0	1	ŏ	0	0	0	ō	0	0-	0	0	0	0		0	0	0	0	0
12 13 14	0000	0	0000	0	0	0000	0 0 0	0 0	0	0000	0 0		0 0	0000	00000	0 0 1	0001	0001	0 0 1	0 0 0 0 0	0000	0000	0000	0000	0000
16 17 18	0 0	0	0 1 0	0000	0 0 0	0000	0 0 0	0000	0 0 0	0	0 1 0		0 1 1	0 2 0	0	0 1 0	0 1 0	0010	0000	0 1 0	0	0 0 1	0000	00000	0 1 0 0
20 21	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 23 24 25 26 27	0 1 0	0	0 1 0	0 0 1	0	0	0	0	1 0 1	0	0	000	000	0	0	0	0	0 0 0	000	0 1 0	0	0	0001	1 0	0 0
28	1	2	0 2 0	0 1 0	0 1 0	1	1 1 0	1	0 1 0	1	2	3	2	2	5 2 0	3	1 0	2	3 2 0	5	1	0	0	0	0
29 30 31	1	1	1	1 2	1	1	1 10	1	1	2 B	2 1 8	2	1	10	1 2	2	1 2	3	0	1 2		,	i	0	1
MEAN	0	1	0	0	0	,	1	•	1	1	1	1	1	1	1	1	•	1	1	,	0	0	0	0	Q.6

PERCENTAGE OF DATA VALID - 96.6 PERCENTAGE OF DATA INVALID - 3.4

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T -	SULP	AUR DIO	XIDE							ļ	JNITS	- 0.0	1 PAR	ITS/MI	LL!ON	4							
	STA	TION	. с	NO	44015	10	BRONTE	RD/W	OBURN	CRES	. 04	KVILL	E			MONT	н · s	EP	80							
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8	8 1 0 0 0 1 0 0 0 0	22 1 0 0 0 1 0 0 0	30 1 0 0 0 1 0 0 0	13 0 0 0 1 0	7 0 0 0 0 1 0 0 0	5 1 0 0 0 1 0 0 0	1 0 0 1 1 0 0 0	4 1 0 0 1 1 1 0 0	1 0 0 1 1 0 0 1	2 0 0 0 1 1 0 0 1	10000	0 0 0 1	1 0 0 1 1 1 0 2	1 1 0 0 0 1 1 0 0	1 0 0 0 0 0 0 0	6-0-00000	40030000	210100000	1 10000	010210000	1 1 0 1 1 0 0 0 0	0 0 0 1 1 0 0 0 0	10000	0 0 0 0 0 0 0 0	5 1 0 0 0 1 0 0 0	
10 11 12 13 14 15 16 17 18	0 0000000000	000000000-0	0 0000000000	0000000000	0000000000	0000000000	00 0000000000	0 0 0 0 0 0 0 0 0 1	0 0000000000	0 0 0 0 1 0 1 2 0 3	0 0000000104	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 1	0 0000000000000000000000000000000000000	0 0 0 0 1 0 0 1 1	0 0 0 0 0 1 0 0 1 0	0 00000-0000	0 000000000	0 0000000000	0 0000000000	0 0000000000	00000000000	0 (10000000000	0 0 0 0 0 0 0 0 1	
21 22 23 24 25 26 27 28 29 30	1 0 1 0 0 0 0	1000010	1000010020	000000000000000000000000000000000000000	0 0 0 0 0 1 1	0 0 0 1	0 0 0 1 1 0 0 0 0 1	0 0 0 1 0 1 2	00000101014	0 0 0 1 1 0 3 0 1 4	0000101005	0 0 0 0 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 3 1 0 2	0 2 0 0 2 0 0 2	0200103100	0 3 0 0 1 0 2 1 0 2	0 1 0 1 0 1	0200001102	1 0 0 1 0 0 1 0 2	1 0 1 0 0 0 1 2	1 0 1 0 0 0 1 2	0 0 0 0 0 0 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 2	0 1 0 1 0 1 2	
MEAN	0	1	1	1	0	0	0	0	0	1	1	1	1	0	c	3		G	٥	٥	0	٥	٥	0	0.5	

PERCENTAGE OF DATA VALID - 98.6 PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

" - " INDICATES DATA IS UNAVAILABLE

3. " \*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS . O.O. PARTS MILLION BRONTE RD/WOBURN CRES. OAKVILLE VONTH - OCT 80 STATION - C NO 44015 10 11 12 13 16 17 18 19 20 21 22 23 24 MEAN HOUR 5 7 8 9 14 15 3 6 200-0-1 2 3 4 5 6 7 8 9 10 70000-0401 -0000000000 0000000401 00-000400 0-0000-00 0000009--0 000003110 00-00000-00000601 .00000 11 12 13 14 15 16 17 18 19 00000000-0 0000010910 0000000000 N000000-00 -0000000 01000010 0-10000000 0030001200 000000000 0000000-0000000110 0000000 0000010210 0000 00 00 .... 1 000000000 000000-000 000000-000 0000000000 000000000 0000000000 000000000 000000-006 21 22 23 24 25 26 27 28 29 30 000000-000 30000001 0000000000 0000000000 000000-000 000000-00 -000000000 0000000000 70000000 -0000000000 00.00.00 00000000 3 31 10 5 ٥ 0 0 0.5 MEAN

PERCENTAGE OF DATA VALID - 98.1

PERCENTAGE OF DATA INVALID . 1.3

PERCENTAGE OF DATA UNAVAILABLE . 0.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	LUTANT		SULPH	UR DIO	KIDE							, L	STING	- 0.0	1 PAR	TS/MI	LLIO	N						
	STA	TION -	c	NO	44015	6	RONTE	RD/W	OBURN	CRES	. OA	KV:LLE				MONT	H - N	OV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0 0 3 0 1 5	000007000	0 0 0 1 0 1 1 1 0 0 0	0000027000	000000	0001001000	0003001010	0007021000	0004056000	0001005010	0031002010	0 0 0 13 2 1 0 0	00910154000	00000	0051082000	00000000	0020081000	0010091010	0 0 0 0 1 0 0 1 0	0030070000	000000000	0030010000	000000000	0030010100	0 0 2 1 0 5 3 0 0 0
11 12 13 14 15 16 17 18 19	000000000	010000000	000.000001	000000000	0 1 0 0 0 0 0 0 0 1	0100000010	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 1 1	0 2 2 0 0 0 1 0 1 1	00000001	0 2 0 0 0 0 1 2		102000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10000000	W00000000	- 0 0 0 0 0 0 0 0 0	1030000051	00000000	001000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 3 0 1 2	0.00000000	010000012
21 22 23 24 25 26 27 28 29	3000.000	2012000071	30310010123	504-000041	404.00000000000000000000000000000000000	4 0 4 1 0 0 0 0 7 0	4 0 3 1 0 0 0 0 0 10 3	4 1 5 0 0 1 0 1 1 1	5 2 4 0 0 0 0 0 0 16 0	******	2440000000	240000005	33.000004	0 4 3 0 0 0 0 0 0 0 1 0	0330000000	042000001	0230000001	0 2 3 0 0 0 0 2 0 0	0 4 1 0 0 0 1 0 2 0 1	0 3 2 0 0 1 0 2 0 1	022000121	0 3 2 0 1 0 0 1	0320000301	0 2 1 0 0 0 0 1 0	2 2 3 0 0 0 1 4 2
MEAN	1	1	1	1	1	1	1	3	2	1	1	1	2	2	1	1	1	Y	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 98.2

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - DEC 80 BRONTE RD/WOBURN CRES. DAKVILLE STATION - C NO 44015 22 23 24 MEAN 9 10 11 12 13 14 15 16 17 18 19 20 21 6 7 8 HOUR 1 2 3 4 5 6 7 B 9 10 -00000-00 0-000100 ...0 0 5 Ó ò o 0 2 1 0 . . . 0000-00000 0-00000000 12 13 14 15 16 17 18 19 20 00-0-. . . . 0 1 0 0 0 1 0 0 ò ō 22 23 24 25 26 27 28 29 30 -22420 

0 0 0

PERCENTAGE OF DATA VALID - 96.6

MEAN

0 0 0 0

1 2

PERCENTAGE OF DATA INVALID . 1.7

1 1 1

PERCENTAGE OF DATA UNAVAILABLE - 1.6

ŭ

0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

0 0 0

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 44015 BRONTE RD/WOBURN CRES. OAKVILLE

#110H	110 41015	Memora Men separation according				
MONTH	NO OF DA	YS AVERAGE C	ONCENT 24-HOUR	MAXIMUM	AM	XIMUM READING
JAN			DATA UNAVAILABLE			
FEB			DATA UNAVAILABLE	*		
MAR			DATA UNAVAILABLE			
APR	21	0.6	5	i		5
MAY	21	0.6	3	2		10
JUN	25	1.1	: ·	5		10
JUL	31	0.2	2	1	•	4
AUG	30	0.6	i .	4	•	14
SEP	30	0.5	5	5		30
oct	31	0.5	5	3		11
NOV	30	1.0	0	5		16
DEC	31	0.8	8	1		24
YEAR	250	0.7	7	5		30

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS . O O1 PARTS MILLION

STATION - C NO 44015 BRONTE RD/WOBURN CRES. OAKVILLE

MONTH O	TO 05	06 TO 10 1	1 TO 15	6 TO 20 2	1 10 25 2	26 TO 39 40	10 49 50	SOVER	TOTAL
JAN		DATA UNAVAL	LABLE						
FEB		DATA UNAVAL	LABLE						
MAR		DATA UNAVAI	LABLE						
APR	505	٥	0	0	0	0	0	0	505
MAY	571	8	0	0	0	0	٥	0	579
JUN	606	26	0	o	0	٥	0	0	632
JUL	743	0	0	0	o	0	0	0	743
AUG	705	11	3	0	o	0	0	0	7:9
SEP	704	3	1	0	1	1	0	0	710
oct	710	19	1	0	0	0	0	0	730
NOV	680	19	7	1	o	0	0	0	707
CEC	714	3	1	0	4	0	0	0	719
VE 4.0	5020	89	13	1	2	1	٥	0	6044

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID MIN 10 CONCENTRATIONS
FREQUENCY DISTRIBUTION. PERCENT
50 70 90 95 ARITH 10 30 0.7 30 4.7 0.0 0.0 0.0 0.2 1.4 2.7

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANI	- 5	ULPH	UR DIO	XIDE							1	UNITS	. 0.0	DI PAR	TS, MI	LLIO	•						
	STA	TION -	c	NO	45025		RITSON	RD/O	LIVE	AVE.	05H	AWA				MONT	H - J	AN	80						
HOUR	Ť.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	2000010010	1 0 0 1 0 1 0 1 0	1 0 0 1 1 0 0 2	1 0 0 1 1 2	1001001	10001001	2001001022	100010011	0 0 0 1 0 1 1	000-000000	0.000011111	0 1 0 0 0 1	0 1 0 0 1 0 1 1	010000001	0 0 0 0 0 0 0 1	001000001	0010100001	0 0 0 0 1 0 0 1	1000100101	0000101101	0000010000	000000000	0 0 0 1	1000001
11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000-00:000	0 0 0 1 1 0 0 0 0 0	5 0 0 0 3	1010000100	0 0 0 0 0 0 0	0011000000	0 0 0 0 0 0 0 0 0	000-000000	2001000000	-00	1001000:00	000000000000000000000000000000000000000	000000-00	0 0 0 0 1 1 0 0	100100000	00000	1000001000	0 3 0 0 1 0 0 0	0000000000	0001000000	0000010000	0 0 0 0 0 0 0	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 2 2 - 0 1 0 1 0 0 4	0 3 0 0 0 0 0 3	0 4 0 0 0 0 1 0 0 2	0400100102	0 2 0 1 2 0 0 0 1	0 2 0 1 4 0 0 0 0 1	0 0 0 0 0 0 0 0 0	0001302000	0101401000	0 1 3 0 0 0 1	1 0 0 0 0 0 0 0	0,00000000	0000000000	0100100010	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0300000000	0 2 0 0 1 0 0 0 1 1	0 2 0 0 1 0 0 0 1 1	030100002	1200100000	000000000000000000000000000000000000000	3 1 0 0 1 0 0 0 2 0	3 0 0 1 0 1 0 0 1 0 0	0 2 0 1 1 0 0 0 1 1
31	0	0	0	0	٥	0	0	0	0	0	0	0	o	0	o	0	1	1	2	1	O	0	0	٥	0
MEAN	0	0	0	1		0	0	1	1	0	0	0	0	0	0	0	C	٥	0	1	0	٥	0	0	0.4

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID . 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.1

<sup>--</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS, MILLION

														A		100									
	STA	TION	· с	NO	45025		RITSON	RD/	OLIVE	AVE	. 051	14:KA			×	MON	TH -	FEB	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	3.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	٥	ن	1	0	٥	٥	1	c	0	1	1	0	С	0	٥
2	0	0	0	. 0	1	1	0	0	1	0	0	Э	0	1	0	٥	Ü	Œ.	٥	0	1		1	2	0
3	1	ì	1	_ 1	0	0	0	0	0	0	1	0	0	0	0	0	0		0	1	1	0	0	0	0
2	0	0	0	0	1	1	0	1	0	• • • •		1	1		1	1	1.0	Ţ.	2	1	0	0	1	1	1
5	1	1	0	1	1	1	1	1	1	1	0		O	0	0	0	7.0	21	1	1	1	0	0	0	4
- 6	1	0	0	2	0	0	1	1	0	0	0	O	Ü	0 0 0	000	٥	0		0	0	0	1	1	1	0
7	1	0	0	2	1	0	0	1	0	0	0	0	٥	0		٥	0	(	0	1	1	0	0	0	C
8	0	0	0	0	0	1	1	1	1		0	0	٥	0	- 0	0	1		٥	0	0	0	O	0	0
9	0	1	1	2	2	1	1	1	1	1	1	C	0		J	C	0	4.3	0	1	1	1		0	1
10	0	0	0	0	0	0	0	0	0	0	0	O	0	0	1	0	0	U	Ĭ	1	1	1	1	1	0
11 12 13 14 15 16 17 18	1	1	2	2	2	1	,	2	2	3	2	2	2	3	••••	3	2		5	1	1	1	2	3"	2
12	1	1	1	1	1	7.	1	1	1	O	0	Ú	٥	٥	ن	٠	2	J	ت	3	ō	3	2		0
13	1	1	1	1	1	1	2	2	1	1	2	3	3	3	4		2	•	1	1	2	4	5	2	2
14	2	2	2	1	1	2	2	2	2	2	2	1	0		• • • •	0	U	O	0	0	1	0	0	o	1
15	0	0	1	1	1	2	1	1	1	0	0	0	C	0	0		0	3		0	0	0		0	O
16	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	1	C	1	1	0	1	2	2	1
17	1	1	1	1	1	2	1	2	1	0	2	0	0	0	0	٥	٥	0	0	0	1	1	1	0	1
18	1	1	1	1	1	1	1	1	2	3	3	3	2	2	2	1	1	1	1	1	2	3	2	2	2
19	2	2	3	4	4	3	3	4	3	2	2	2	2	2	3	3	2	3	3	3	3	2	1	1	3
20	1	2	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	2	2	2	7	2	2	1	1
21 22 23 24 25 26 27	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	ğ	3	•	0	1	0	0	0	1
22	0	0	0	0	0	0	1	•	1	1	1	1	1	1	- 1	1	3	1	- 1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	-1	1	1	• 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	- 1	1	1	1	1	1	0	0	0	1	1	3 "		1	1	1	1	1	0	1
26	1	2	1	1	1	- 1	1	1	1	1	1	1	1	1		0	C	1	1	1	1	2	2	3	- 1
27	1	2	1	1	1		****	1	1	2	1	1	1	1	0	1	2	2	2	2	2	1	2	2	,
28	1	1	1	1	2	2	1	2	1	1	1	0	0		1	1	C	O	0	0	1	0	0	1	3
29	1	1	0	1	1	1	0	1	1	0	0	0	1	0	1	0	0	0	1	ō	3	2	3	2	1
MEAN	1	1	1	1	76	1	1	1	1	1	1	21	1	1	1	1	Y	3	1	1	1	1	ï	1	۵.۵

PERCENTAGE OF DATA VALID - 97.7 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATÉS LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	P	OLLUT.	ANT -	SULP	HUR D	IOXID	E							UNIT	5 - 0	01 P	ARTS/N	MILLI	in.							
	S	OITAT	N -	C NO	4502	5	RITS	ON RD,	OLIVE	AVE	os	HAWA				MO	TH -	MAR	80							
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	1 0 1 1 2 0 1 1 1 1	2121201122	1 3 1	1	3110031121	1 2 2 1 2 0 3 0 2 1	1 3 2 2 2 0 3 0 2 1	1 3 3 2 2 0 2 0 2 1	0 1 2 2 2 0 1 0	0 0 2 2 1 0 1 0 2 1	0012101001	1 1 2 1 0 0 0 0 2	0 1 3 3 1 1 0 0 0	0 0 2 2 2		0 0 1 3 1 2 2 0 1 1 1	0 0 1 1 0 1 0 2	0 0 2 3 1 1 2 0 2 2	1 0 4 3 0 1 2 0	100202	2011012032	1 0 1 2 0 1 1 1 2 1	0 0 1 3 0 1 1 1 2 1	0 1 1 2 0 0 1 1 1 1 1 1	1 1 2 2 1 1 2 2 0 2 1	
11 12 13 14 15 16 17 18	0 1 2 1 0 1 1 1 1 1 1 1	0211011011	0 2 1 1 0 1 1 0 2	2	0:11001021	0201111021	0 4 0 1 1 1 0 2	0411301022	0 1 3 0 1 1	3	0 2 0 1 2 2 1 1 1 1 1 3	000011002112	0 0 1 1 1 2	0 1 1 1 1 1	00010001	000001121	0 0 3 0 1 1 2 1	0.000	0 2 0 0 1 0 1 1 1 1 1	0 1 0 1 0 1 1 0	0 1 0 1 1 1 0	000000000000000000000000000000000000000	1 0 1 1 1 1 0	1010100110	011110011111111111111111111111111111111	
21 22 23 24 25 26	0	0		0 1 0	0	0 2 0	0 1					!	1 1 1 1 Data	INVA	0										:	
27 28 29 30	0	0	0 0 1	0	0 0 1	0 0 1	0	0010		0		D D I	0 0 1	. 1	0	0 1 1	0 1 1	0 2 1	0 2 1	0 2 1	0 1 1 1	0 0 1 1 1	0	0	0	
31 MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	i i	1	1	1	1	1	1	1	1	1	1	0.9	

PERCENTAGE OF DATA VALID - 87.6 PERCENTAGE OF DATA INVALID - 12.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . D. O1 PARTS, MILLION POLLUTANT - SULPHUR DIOXICE WONTH - APR RITSON RO/OLIVE AVE. OSHAWA STATION - C NO 45025 24 MEAN HOUR 2000-200000-W00000-0--2500000: 22-000-22-000-2000-0---0-0-1 0 1 1 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 0 1 O O INVALID INVALID INVALID 0 1 3 0 4140 4140 4140 - DATA INVALID -51233333. 2 - 2333334 4 1 3 3 3 3 3 3 4 -0223333 4 1 4 4 3 3 3 1.4 MEAN 

PERCENTAGE OF DATA VALID - 77.2

PERCENTAGE OF DATA INVALID . 16.7

PERCENTAGE OF DATA UNAVAILABLE . 6.1

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXICE MONTH - MAY RITSON RO/OLIVE AVE. OSHAWA STATION - C NO 45025 24 MEAN . 8 HOUR 4 2 3 4 2 2 3 1 1 2 3 4 5 6 7 8 9 10 0 0 1 000000-000 00: 00.0000001 000.000. 00000. -000000 0--0000000 00-00000-0 12 13 14 15 16 17 18 19 20 0 1 1 00. 000000-0 000-0 o 0 2 0 0-00 ō 00... 00000: 0 2 0 22 23 24 25 26 27 28 29 30 00-000 -00000 0 0 1 0 1 0 0 0 1 0-0 Ċ ō Q U v a a u u 0.B . MEAN

PERCENTAGE OF DATA VALID - 93.4

PERCENTAGE OF DATA INVALID - 6.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . 0.31 PARTS/MILLION

	STA	TION	- с	NO	45025	1	TITSON	RD/	OLIVE	AVE.	osH	AWA				#ON	н .	JUN.	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	!8	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	000111001	00011200	0 0 0 1 1 2 0 0	0 0 1 1 2 0 1	0 0 1 1 2 0 1	00112202	0 0 0 2 2 1 0 2	000-2-00	0 0 0 1 1 0 2	0 0 1 1 1 0 2	0 0 0 1 2 1 0 2	1 2 1 0 2	1	0 2 1 1 1 0 2	0 1 1 1 0 1	0 1 1 2 1 0 1	2 1 0 1	1011301	1 1 1 0 0 1	0 0 1 1 0 0 1	0 0 1 2 1 0 0 1	2 2 0 0 1	1 1 2 1 0 0 1	0 0 1 2 1 0 0 1	0 0 1 1 0 1
10	1	Ĭ	1	į	1	1	1	;	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 12 13 14 15 16 17 18 19	1000011000	1 1 0 0 0 1 1 0 0 0	1 1 0 0 0 1 1 0 0 0	1100011000	1 1 0 0 0 1 1 0 0 0	1 0 0 0 1 1 1 0 0	1 0 0 0 0 1 1 0 0 0	1 1 0 1 1 1 0 0	0 1 1 1 0 0	00000	0 0 0	0010001100	00-000-000	0000+000	0000		200010010	000-000	0 1 1 0 0 0 0 0	0 0 1 0 0 0 0 0	00,001,000	00000000	0000110000	0000110000	0011000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 1 0 0 0 0 1	0 0 0 0 1 0 0 0 1	000000000	00000000	00000000	00000000	0 0 0 0 0 0 1	00001	00001	0 0 0 1	0 0 0 0 1 0 0 0 0 1	0 0 0 0 0 1	1 0 0	0 1 0 0 0 0 0 1	00.000001	00000000	0 0 0 0 0 1	000001	0 0 0 0 0 0 0 1	• 00000	0 0 0 0 0 0 1	0 0 0 0 0 0 0 1	0002000011	000-0000-	000010000
MEAN	0	0	٥	0	0	1	0	1	٥	1 '	. 0	1	0	1	0	٥	1	0	0	0	0	0	1	0	0.5

PERCENTAGE OF DATA VALID - 98.3 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES GRANCH

	POI	LUTAN	τ.	SULPH	UR DI	OXIDE								UNITS	- 0.	O! PA	RTS/M	ILLIO	N						
	STA	TION	. с	NO	45025		RITSON	RD/	OLIVE	AVE.	05+	AWA				HON	тн -	JUL	80						
HOUR	2	2	3	4	5	6	7	8	9	10	, 1	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
10	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1
2	ò	0	1	0	0	0	1	1	0	0	0			1	1	1	1	1	1	7	1	1	1	1	
3	1	1	1	1	1	1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	. 1	1	
4	1	1	1	1	1	1	1		1	1	1	1	0	1	1	1		1	1	1	1	1	1	- 1	1
5	1		1	Ť.	1	*	1	19	1	1	1	1	1		1	1	1		1	1	1	1	1	0 0	1
6	1	0	1	1	1	1	1	0	000	0	0	0	00	٥	٥	0	0	0	0	0	0	0	۵	č	·
7	0	0	0	0	0	0	0	000	0	0	0	1	٥	1	•	1	1	3	2	1	0		0	00	2
8	1	1	1	0		0	0	0	0	0		٥	0	0	0	0	0	0	0	0	٥	0	o	ŏ	ĕ
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	,		ĭ	o
10	0	0	0	0	0	0	0	0	0	0	0	0	****	0	0	0	0	0	0	0	0	1	- 1	- 1	
11	0	0	٥	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	ŏ	ŏ	ŏ		ŏ	ŏ	ŏ			ō	ŏ	ŏ	ā	0000	ũ	0		0	00000	0	0	3	0	0	^
	ŏ	ŏ	ŏ	0 0 0	0	0	0	ŏ	ň	0	ō	Ğ	ô	0	000	0	0000	0	0	0	Q	٥	0	0	0
13	ŏ	000	0	õ	õ	ŏ	ŏ	ō	ŏ	ō	ō		ō	o	0	0	0	0	0	0	0	0	0	0	
16	ŏ	ŏ	ŏ	ŏ	ŏ	1	1	o	ŏ	ō			0	0	0	0	0	3	0	0	0	0	0	0	0
16	. ŏ	ŏ	ŏ	ō		o	0	ō	ō	0	0	0	0	0	0	0		0	0	0	0		0	0	0
17	. 0	0	ŏ	0	0	0	ō	000000	0000000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0
15 16 17 18 19	ō	0	ŏ	ŏ	٥	٥	0	0	0	0	0	0		1	1	1	1	1	1	•	- 1	1	1	¥	0
19	1	1	1	1	1	1	1	•	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1
20	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
21	1	1	1	1	1	1	1	1	1	1	1	t	1	1	•	1	1	1	1	1	1	1	1		1
21 22 23 24 25 26 27 28	4	•	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Ç	1	1	1
23	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	1	1	1	1	1	1	- 1	1	1	9
24	1	1	i	1	1		1	1	1	1	1	,	1	1	1	1	1		1	1	1	1	1	1	1
25	î.	1	- 1	1	1	1		1	1	1				0	0	0	0	0	0	0	0	0	0	0	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	a	3	0	0	0	0	ă	0	ŏ
27	0	0	0	0	0	0	0	0	0	О	0	G	0	0	0	٥	C	C	0	C	0	0	•		
28	0	0	0	0	0	0	0	0	0	0	0	٥	٥	0	•6 0+051000								c		
29											••••				• • • •	****					0	c			٥
30	0	0	0	٥	0	0	0	0	0	0	0	٥	0	0	0	٥	٥	0	0	0	0	1			Ų
31													DATA	INVA											
1990	1522	-		765				_	_	_						0	a			٥	٥	٥	0	0	0.4
MEAN	0	0	0	٥	0	0	0	٥	٥	0	0	0	0	Q	0	U	٠	9.		U				•	2

PERCENTAGE OF DATA VALID - 91.7 PERCENTAGE OF DATA INVALID - 7.7 PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE RITSON RD/OLIVE AVE. OSHAWA SONTH - SEP BO STATION - C NO 45025 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN HOUR - D2T4 | NV4LID - C2T4 | NV4LI 1 2 3 4 5 6 7 8 9 10 11 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 2 0 . DA'A INVALID . DATA INVALID . DATA INVALID . DATA INVALID . DATA INVALID DATA INVALID CIJAVNI ATAO DATA INVALID 21 22 23 24 25 26 27 28 29 30 1 1 0 1 1 0 1 1 0 1 0 0 0 1

0 2

1 1

t

1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

PERCENTAGE OF DATA INVALID - 59.0 PERCENTAGE OF DATA VALID - 40.7 NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

1 1

... INDICATES DATA IS UNAVAILABLE

0

MEAN

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POI	LUTAN	r - ;	SULPHI	UR DIG	BCIXC			*					UNITS	· o.	01 PAF	15, N	: 10	N							
	ST	TION	. с	NO ·	45025		R [ T 50	N RD/	OLIVE	AVE.	051	LWA!				MONT	tH -	OCT	80							
HOUR	1	2	5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN	
1 2 3 4 5 6 7 8 9	2 2 1 1 1 1 2 2	1 1 1 2 2	2 1 1 1 1 2	2 1 1 1 1 2	1 1 2 1 1 1 1 2	1 1 2 1 1 1 2 2	2 1 1 2 2 2 2	1 2 2 2 2 2	2 1 1 2 2 2 2	2 1 1 1	2 1 1		0717	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ID -	2 1 1 1 2 2 1	1 1 1 3 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2	1 1 1 2	2 1 1 1 1 1 1 2 2	••••	2 1 2 1 1 1 1 1
11 12 13 14 15 16 17 18 19													DATA DATA DATA DATA DATA DATA DATA DATA	INVAL INVAL INVAL INVAL INVAL INVAL INVAL	ID - ID - ID - IO - IO -											
21 22 23 24 25 26 27 28													DATA DATA CATA DATA DATA DATA	INVAL INVAL INVAL INVAL INVAL INVAL	10 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·										*	
29 30	••••	••••	••••	••••	••••	••••	••••	••••	****	••••	•		0		2	0	0	_			0	0	0	1		1
31	Ä	0	0	1	3	0	1	3	1	0				0	0	1	1	1	1	1	1	1	1	1		1.2
MEAN	1	1	1	•	1	1	2	2	2	1	2	:	1	1	1	1	3	1	,	1	1	1	1	1		

PERCENTAGE OF DATA VALID - 28.0 NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

PERCENTAGE OF DATA INVALID - 71.8

- .. INDICATES DATA IS UNAVAILABLE 2.
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DATLY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIGXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION		C NO	45025	5	RITSON	RD/C	DLIVE	AVE.	0SH.	7 * 7				HON'	te - 1	vov	80						
HOUR	1	2	3	4	5	€	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24	YEAN
1 2 3 4 5	0 1 1	1	0 4 1	0 4 2	4	0 4 4	0 4 4	3	3 0 1	3 0 2	3	· CAT	A U'.	3 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	BLE		1	00.	0	2	5	6	3 5	2	<sup>1</sup>
6 7 8 9 10	0	0	0	0	0	0 0 2	0 0	0 0	0 1 0	0 1 0	0 1 0	. DAT	0 1	AVAIL. 0 0	1 0 0	0 0	0	000	1 0 0	1 0	0 0	0 0 1	0 0 1	0 2 0 1	0
11 12 13 14 15 16 17 18 19	0 0 1 0 1 1	0001001012	000000000000000000000000000000000000000	1 0 1 0 2 0 0 3	100100000000000000000000000000000000000	2010	0 0 1 0 1 0 1 1		1 1 0 1 0 2 1	0 0 1 0 1 0 1 2	0 1 1 0 0 0 0 1	101.000001	30,00000-2	0 0 0 0 1 1	00000011	1 0 0 0 1 0 1	002000101	0 - 1 0 0 0 0 0 0 1	1 4 1 0 0 1 0 0 0 2	1 3 1 0 0 2 0 0 0 2	0 2 1 0 0 0 1 0 0 0 1	0 2 - 0 0 2 0 0 0 0 -	0 2 1 0 0 2 0 1 0 1	0 1 0 1	0 0 1 0 0 2
21 22 23 24 25 26 27 28 29 30	0000	3 0 0 1 1 1 0	0 1 0 1 0 1 0	3 0 1 0 1 1 0	0 1 1 0 0	3 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0	0 0 0 0 0 0	3 1 1 0 0 0 1 0 0	2001000000	1 0 0 0 0 0	1	0 1 0 0 0 0 0 0 0	1 0 0 1 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0 + 0 0 + 0 0 0 0	010000	010000	0 1 2 0 0 0 0	0 0 0 0 0 0	00.000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0
MEAN	0		1	1	1	1	1	1	1	1	1	1	1	1	0	0	o	٥	1	1	1	1	1	1	0.6

PERCENTAGE OF DATA VALID - 82.5 PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE . 13.6

NOTES 1. "\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

	PC	LLUTAN	T - 5	SULPH	UR 010	DXIDE								UNITS	- 0.	GI PA	ARTS/I	MILLIC	N							
	51	ATION	- с	NO	45025		RITSON	RO/	OLIVE	AVE.	05	AWA				MON	TH -	DEC	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8	001002010	000000000	101001010	101002010	1 0 1 0 0 3 0 1 0	101003010	1 0 0 0 2 0 1 0	1 1 0 0 1 0 2 0	1,000000	1 1 0 0 0 0 1 0	0 1 0 0 0 1 0 1 0	011002010	01000000	0	010000000	0 0 0 0 0 0 1 0	0100-0000	0 0	0	1 1 1 3 0 1 0	0	000.1010.	0 0 1 1 2 0 1 0 0	000120100	000000000000000000000000000000000000000	
10 11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 1 0 1 1 0 1	0 000-20000-	0 1 0 1 2 1 0 1 0 2	0 0 1 1 1 0 1 0 2	0 1 2 5 1 0 1 0 1	3 1 0 1 0 1	0 2 2 2 0 4 1 0 1 0 1	3 3 3 1 1 0 0 1	0 3 4 0 1 2 1 0 0 1	1 2 0 0 1 1	1 1 2 1 0 0 0 1	0000000	0 1 1 1 0 0 0 0 0	1 1 0 0 0 0 0 0 0	0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 1 2 0 2 0 0 0	0	0	0 1 2 1 0 1 1	0 1 0 0 1	0 1 2 . 1	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 1 0 0 0 1	分 超級
21 22 23 24 25 26 27 28 29 30	1 2	2 2	2 3 2	4 3 2	4 3 2	5 2 2	5 3 2	3	4	0 4	1 4 ****	3	DATA DATA DATA DATA DATA	INVAL INVAL INVAL INVAL INVAL	10 - 10 - 10 - 10 - 10 -	2 0	3	200		0 1	0 1	1	!	0 2	2 2	PERSONAL TAK
31 MEAN	i	1	,	1	1	e Ī	*	1	i	1	1		UATA	INVAL	۰ ن	o	,	1	1	1	,	1	1	0	0.7	ē
								350	650																	

PERCENTAGE OF DATA VALID - 67.1 PERCENTAGE OF DATA !NVALID - 31.5 PERCENTAGE OF DATA UNAVAILABLE - 1.5

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN. IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

ONTHLY SUM	MARY OF HOLIPLY AND 2-HOLIPLY DAT	A FOR 1980		
OLLUTANT -	SULPHUR DIOXIDE		UNITS - 0.01 : ARTS/MILLIC	ON .
TATION -	C NO 45025 RITSON RD/OLIVE	AVE. OSHAWA		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.4	2	5
FEB	29	0.8	3	5
MAR	27	0.9	2	4
APR	23	1,4	3	5
MAY	29	0.8	3	6
JUN	30	G.5	1	2
JUL	26	0.4	<b>†</b>	3
AUG		DATA UNA	VAILABLE	
SEP	12	1.1	2	3
oct	В	1.2	2	4
NOV	23	0.6	2	6
DEC	21	0.7	2	5
YEAR	261	0.7	3	6
,				

# ONTARIO MINISTRY OF THE ENVISCENCE - AIR RESORCES BRANCH

MONTHLY GRO	UP FREQUE	NCY DISTRIBUT	ION FOR 19	80					
POLLUTANT -	SULPHUR D	BDIKOI			UN	ITS - 0.01	PARTS/MILL	ICN	
STATION -	C NO 450	25 RITSON	RD/OLIVE	AVE. OSHA	MΑ				
MONTH	00 TO 05	06 TO 10 11	TO 15 16	TO 20 21	TO 25 26	TO 39 40	10 49 50	SOVER	TOTAL
JAN	733	0	0	٥	0	0	0	0	733
FEB	680	0	0	0	0	0	0	0	680
MAR	652	٥	c	G	0	o	0	0	652
APR	556	٥	0	٥	0	0	0	٥	556
MAY	694	1	0	0	٥	0	0	0	695
JUN	708	0	c	o	0	0	o	٥	708
JUL	682	0	0	0	٥	o	0	0	682
AUG		DATA UNAVAIL	ABLE						
SEP	293	0	0	o	0	o	0	o	293
OCT	208	٥	0	0	0	٥	0	٥	208
NOV	593	1	0	0	0	٥	0	0	594
DEC	499	0	0	0	٥	٥	0	0	499
YEAR	6298	2	0	0	0	٥	٥	٥	6300
		-							

FREQUENCY	PERCENT	ION BY	PERCENTILES		FREQUENCY		TRATIONS					ARITH
	OF DATA	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	70 4	0	0.0	0.0	0.0	0.6	1.5	2.1	2.8	3.3	6	0.7

UNITS - O.G. PARTS/MILLION

			5-15-																						
	STAT	TION	¢	NO 4	6100	PU	BLIC	\$CHO	OL GR	EEN	GLADE	80.81	\$\$155	SAUGA		MONT	н - ,	AN	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	0 0 0 1 .	0 1 0 1 0 3 0 0 0	0 1 0 1 2 0 0 0 0 0	0 1 1 3 0 0 0 0 0	0 1 1 2 0 0 0 0 0 0	0 1 0 1 3 0 1 0 0 0	0 1 0 1 1 0 4 0 0 0	000-00000	000000010	0003210001	0 0 3 5 1 0	0004500000	00004-0000	10000	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	0000000000	00000-0000	0 0 1 0 0 2 0 1 0 0	0010000	00-200000	0013020000	0012030000	0 0 0 1 1 1 1 0 0 0 0
11 12 13 14 15 16 17 18 19	0000000000	000-000000	0 0 1 3 0 0 0 0 0	0 0 1 3 0 0 0 0 0 0	0013000000	0 0 0 0 0 0 0 0	102200000	00000000	0000000000	0001000000	1 0 0 0 0 0 0 0	00000000	0011000000	00000		50000000	30000000	30 00 100000	0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0	0000000	000100000	0000000	0 0 0 1 1 0 0 0 0 0	000000
21 22 23 24 25 26 27 28 29	0 0 1 0 3 2 1 4 1 1	0000321321	0 0 0 3 1 1 3 2 1	0000511223	0 0 0 0 5 1 1 2 4	0 0 0 4 1 1 1 2 4	0 0 0 4 1 1 1 2 4	0 0 0 0 4 1 1 1 2 4	00004	0 1 0 1 3 1 1 2 2	0 1 5 1 1 2 1	0 1 0 1 6 1 1 1 1 2	0 1 5 1 1 2 2	0 3 0 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 3 0 1 3 1 1 1 1	0 3 0 1 3 1 2 1 1 1 1	0 2 0 1 4 1 1 1 4 1	0 2 0 1 4 1 1 1 4 1	0 1 0 1 4 1 1 2 1 1	0 1 3 1 1 1 1 2	0 1 3 1 2 1 1 2	0 1 0 2 2 1 2 1 1 1	0103212111	0 2 0 3 2 1 3 1 1	0 1 4 1 1 1 2 2
31	۰.	0	0	1	0	Ť	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	9	3	U
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	~ 1	1	1	1	0	1	0	0	1	1	0.6

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 3.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTA	NT -	SULPH	1UR 01	OXIDE	E							UNITS	0.1	01 PA	RTS/M	ILLIO	N							
	51	ATION		NO	46100	)	PUBLI	C SCH	100L	GREEN	GLADE	RO.N	115515	SAUGA		MON	7H -	FEB	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	0 1 4 2 3 3 1 6	0 1 3 2 3 3 1 6	0 1 1 1 3 1 2 5 1	0 1 1 2 3 1 2 4 1	0 0 1 1 3 4 1 3 3 2	001024	0110340436	0020350326	0 3 0 2 3 0 4 2 6	2 6		0 0 3 0 1 1 0 4 2 3	0030111322	1 0 2 1	0 2 0 3 3 0 2 1 8	3 0 2 0 7	3 3 0 2 0 3	0 - 3 - 3 3 0 2	1 2 4 1 2 7 1 1 0 2	2342451201	3332551102	3132531202	2 2 2 5 3 1 3 1 1	3 2 4 3 1 6 1 3	1 1 2 1 3 3 3 1 3 2 3	
11 12 13 14 15 16 17	3 1 3 1 0 2 2 2	3 1 2 1 1 2 2	5 1 2 1 1 1 2	5 1 2 1 2 2 1	1 1 3 1 1 2 2	1 1 3 1 1 2	3 1 2 4 1 1	4 1 2 4 1 0 1	5 1 4 1 1	3 3 1	3 2 3	32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 0 2 1 0	2 0 0	0 1 0 0	0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2010110	0	3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 0 3 1	3 1 1 2 2	3 1 0 2 2 2	1 2 2 1 1 1	
19 20	1	1	1	1	1	1	2	4	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
21 22 23 24 25 26 27 28	2 0 1 2 0 1 1 0 1	2 0 1 2 1 0 1 1	2 0 1 1 1 0 1 1 1	1 1 0 2 1	1 0 1 1 0 1	1 0 1 1 0 0 1 1 1	1 0 0 1 1 1 1	1 0 2 0 1	1 0 4 1 1 0 2 0 0	1 0 3 0 1 0 2 0 0	0 0 0 0 0	2020	102011110	1 0 1 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1	102000000	0 1 2 0 1 0 1 1	0 1 2 0 1 1	0 1 2 0 1 2 0 1 1	013101033	0 1 0 1 1 3 1	0 1 2 1 0 2 1 2 1	0 1 3 1 1 1 1 1 1 1 1	1002211	
MEAN	2	2		1	1	1	2	2	2	2	1	1	1	1		1	91	T.	2	2	2	2	2	2	1.4	

PERCENTAGE OF DATA VALID - 95.5 PERCENTAGE OF DATA INVALID - 4.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POLL	UTANT	- S	LPHU	R DIOX	1DE							<u>L</u>	NITS	- 0.0	1 PAR	TS/MI	LLIO	N .						
	STAT	ION -	c	NO 4	6100	PL	BLIC	SCHO	OL GR	EEN	GLADE	RD.M	155155	AUGA		VONT	H - K	AR.	50						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		AN
1 2 3 4 5 6 7 8	1 3 0 1 1 1 2 1 1	1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 1 1 1 2 1 1 1	2 3 1 2 2 1 3 1 2 .	2 3 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 1 1 2 1 2 2	1213112112	1 2 2 2 1 1 2 2 1 3	1 2 1 1 2 2 1 3	1 1 2 1 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1	1 1 2 1 1 2 1 1 2	1 1 2 2 1 1 3 1 3	1 1 2 . 2 1 2 1 3	2 2 2 1 1 1 1 3	1 1 2 1 1 0 1 3	1 1 2 1 2 2 3 2 3	1 1 2 2 0 1 3 0 1 3	2 2 0 1 2 0 1 3	1 0 2 2 1 1 2 0 2 2	1 0 1 2 1 2 1 1 2 2	1 0 2 1 1 3 1 1 2 2	1 0 1 1 2 1 1 2 1	3 1 1 2 1 1 2 1	3 0 1 1 2 1 1 2 0	1 1 2 1 1 2 1 1 2
10 11 12 13 14 15 16 17 18 19 20	0 1 1 0 0 2 0 1 1 1	0 1 1 0 0 3 0 0 1 1	1 0 1 1 0 3 0 0 1 1	0110020011	0 1 1 0 0 1 1	111000011	0000	1 1 1 0 0 1 1 1 3	1 1 1 0 1 2 1 2 3	1311013025	1 3 1 0 1 3 0	1 2 1 1 0 1 1 0 1 3	1 2 1 0 0 0 1 0 1 5	1 1 0 0 0 1 0 1 5	1 5 1 0 0 0 2 0 1 3	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	1 3 1 0 0 1 0 0 2 2 2	000000000000000000000000000000000000000	1 0 1 0 1 2	1 1 0 0 1 1 1 1 1 1	0 1 0 0 1 1 1 1 1	0 1 0 2 0 1 1 0	1 0 0 2 0 1 1	1 2 0 0 1 1 0 1 2
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	1010000001	1010002011	10010012111	1 0 0 0 1 1 1 1 1 1	0 0 0 0 1 1 1 1	0 0 1 0 0 0 1 1 1 1	0010102211	0120102201	0 1 2 0 2 0 2 3 1 2	2 2 0 2 1 1 1 1 1 1	0 2 2 1 1 1 1 1 1	0 2 1	02221111	0 2	0 2 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 0 0 1 2 1 1 1 1 1	0 1 0 0 0 3 1 1 1 0 0	0 2 0 0 0 0 1 1 1 2 0 0	0 2 0 0 1 1 1 1 1 0 0	0 2 0 1 1 1 2 2 0 0	0 0 0 0 1 1 0 0 0 0	0200000120	0 - 0 0 0 1 0 1 1 0 0	0 1 1 1 1 1 1 1 1
31 MEAN	0	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	,	1	1	1	1	,	1	1.0

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

	POLI	UTANT	. s	ULP	4UR 010	IDE							U	NITS	. 0.0	1 PAR	RTS/MI	LLION	4						
	STA	TION -	С	NO	46100	P	UBLIC	SCHOO	L GRE	EN	GLADE	RD.MI	\$\$155	AUGA		MONT	H - AI	PR	80						
HOUR	ı	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3	1 1 2	1 2	1 1 2	1 1 3		1 1 2	1 1 2	1 1 2	2 1 2	1 1 0	1 1 1	0	1 0	1 7 0	: 5 1	1	2	2	1 2	1	1	1	1	1 2 1	1 1
4 5 6 7	1 1 1	1	1	1 1	1	1	1	1 1	1 1	1 1 1	1	1	0	0	0	0 1 0	0	0	1 0 1	0 1 0	0 1 0	0 2 0	0 2 0	0 2 0	1 1 1
9 10	0	0	0	0	1	0	1	2	2	2	0	1	2	1	1	1	0 1	1	0 1	1	1	1	1	1	1
11 12 13	0	0	1-00	0	0	10001	0	0 0	0	0001	000	0 0 1	000	0 0 1	0 0	0 0 2	000	0 0 1	: 0 0	0001	0 0	0001	0 0 0	000	0
15 16 17 18 19	0 1 2	0 0 1 2 1	00121	0 1 2 1	0	0 1 1 1	0 1 1 1	1 1 1	0 3 1 1 1 1	0 3 1 2 1	2 2 1	3 6	0 2 7 2	4	i	0 1 2 1	5 3 1	0 1 0 1	0 1 1 1	1 1 1	1 2 0 1	. 2	1 1 2 1	0 1 1 2	1 2 1
21 22 23	1 1 0 0	1 1 1 1	1 1 1 1 1	1	1 0 1	1 1 1	1 2 1 1	1 1 1 1	1 1 1 1 1 1 1 1	1 1 1	1 0 5	3 0 2	21022	0 2 2	0 1	2 1 2 1	1	1 1 2 1	2 0 1 1 1 1 1	1 0 1 1	0	0 0 1	0001	0 0 1	1
24 25 26 27 28 29 30	1 0 0 0	1 0 0 0	1000	1 0	0	1 0 0 0	0 0	0	0 0 1	2 0 0	2 0 0	0	0 0	0	1 0 0	0	0	0	0	0	0 0	0 0	0 0	0	0
MEAN	1	i	1	1	1	1	1	1	1	1	1	•	1	1	1	1	ij	1	1	1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS + O.O. PARTS MILLION

		ATION	_					2 2	na. an																
	317	N I I ON	. с	NO .	46100	-	PUBLIC	SCHO	DDL GF	REEN	GLADE	RO.N	15515	SAUGA		CN	TH - 1	Y A W	80						
DAY	1	2	3	4	5	6	7	8	9	10	£1	12	13	14	15	16	17	15	19	20	21	22	23	24 :	EAN
1 2 3 4 5 6 7 8	1 0 1 0 0 0	10101000	1 1 1 1 0 1 0	0 0 0 1 1 0 0 0	1 0 1 1 1 0 0 0	10111000	1 1 1 1 0 1 0	1 1 1 0 1 1	1 1 1 1 0 1 1 1	1 1 0 0 0	1 2 1 3 1 0 0	3 5 1 0 0 0	5 1 0 0 0	1 1 1 0 0	2 3 2 5 0 2 0 0	2 4 1 7 0 2 0 0	3	22123103	1 1 0 1 0 0	1 1 0 1 0 1 0 0	2 1 0 1 0 1 0 0	2 1 0 1 0 1 0 0	10010100	10010000	1 1 2 1 1
10	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	6	7	2	0	0	9 0	0	0	ő	0
11 12 13 14 15 16 17 18 19	0 0 1 0 0 0 0	0010001000	0010001	00-000-000	0 0 1 0 0 0	0000011000	0 0 0 0 1 1 0 0 0	1 0 0 1 1 0 0 0	2002021010	0 1 0 2 1 0 1 0	0 1 0 2 1 0	0 3	0 3 1 1 0	0 1 1 0 4 1 1 2	0 0 0 2 1 1 5 0	0 2 1 0 1 0 1 4 0	000000000000000000000000000000000000000	54-00-00-0	0110010000	0 1 1 0 0 1 0	0.00010000	0.000-0000	0.000-0000	0.000-0000	0 1 0 0 1 0
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PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID . 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN C'SE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - C NO 46100 PUBLIC SCHOOL GREEN GLADE RD.MISSISSAUGA MCNTH - JUN 80 HOUR 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN 0 1 0 1 0 1 0 1 0 11 12 13 14 15 16 17 18 19 20 003110 0011 0 0 0 0 0 o 21 22 23 24 25 26 27 28 29 30 0 0 0 0 MEAN 1.0

PERCENTAGE OF DATA VALID - 98.6

PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION

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PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID . 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POLI	UTANT	- s	ULPH	UR DIOX	10€							UNITS	. 0.0	1 PA	RTS/MI	LLION							
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PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE . UNITS - 0.01 PARTS/MILLION PUBLIC SCHOOL GREEN GLADE RD WISSISSAUGA VONTH - SEP BO STATION . C NO 46100 10 11 16 17 :8 19 20 24 MEAN A HOUR ...0 0.4 o ò o ò c o 12 13 14 15 16 17 18 19 20 0 ' Ó ō 2 3 05. 22 23 24 25 26 27 28 29 30 0000-ò -00-Ö o 0 4 a 

 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0 PERCENTAGE OF DATA : NVALID - 0.6 PERCENTAGE OF DATA VALID - 99.4

NOTES 1. \*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

MEAN

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION PUBLIC SCHOOL GREEN GLADE RD MISSISSAUGA MONTH - OCT 80 STATION - C NO 46100 13 14 15 16 17 20 21 22 23 24 MEAN HOUR 2 3 4 5 6 7 8 9 00-000-0000-a 000-0 1 0 0 0 2 0 1 0 - -o o o 12 13 14 15 16 17 18 19 20 000000-000 0 0 1 0 1 3 .... Ü 0000-000 0000-0000 -00-.... Ö ... -0000000000 22 23 24 25 26 27 0 1 000000-...2 00000--000 000000-0 ... ò ā ō O 29 30 O \* , o 0 .... O 0 1 Э 0.4 C C O MEAN

PERCENTAGE OF DATA VALID - 95.6 PERCENTAGE OF DATA INVALID - 4.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLITICANT - SUI PHUR DIOXIDE

UNITS . 0.01 PARTS, MILLION

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PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - O OF PARTS/MILLION POLLUTANT . SULPHUR DIOXIDE PUBLIC SCHOOL GREEN GLADE RD.MISSISSAUGA MONTH . DEC 80 STATION - C NO 46100 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN HOUR 0-000000-0 00001-0000 0000-0-00 12 13 14 15 16 17 18 19 20 o 1 0 0 1 004-0-00 00--0-100-2000 000-000 22 23 24 25 26 27 28 29 30 0-000--0152002-4-0230-22521 0330-2232 200-53002-4-0 - 0 ŋ 0.8 MEAN

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. \*- INDICATES DATA IS UNAVAILABLE
  - 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1900

MIN

98.5

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POLLUTANT - SULPHUR DIOXIDE

DEC YEAR UNITS - 0.01 PARTS/MILLION

STATION -	C NO 46100 PUBLIC	SCHOOL GREEN GLADE RD. WISSISS	AUGA	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
MAL	31	0.6	4	6
FEB	27	1.4	3 .	8
MAR	.31	1.0	2	9
APR	30	0.8	2	7
MA	31	0.7	2	1.1
JUN	30	1.0	2 ,	6
JUL	31	1.2	3	13
AUG	31	0.8	1	5
SEP	30	0.8	2	12
OCT	31	0.4	4	5
NOV	30	0.6	3	5

0.8

0.9

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

#### ONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/M:LLION STATION . C NO 46100 PUBLIC SCHOOL GREEN GLADE RD.MISSISSAUGA MONTH 00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 &OVER TOTAL JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC YEAR FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA FREQUENCY DISTRIBUTION, PERCENT 50 70 90 95 ARITH

0.7

1.6

2.2

3.3

4.1

MAX

0.9

	POLL	UTANT	. 5	ULPHU	R DIO	KIDE								08115		ST (A)	et - m;	LUIS	•							
	STAT	ION -	c	NO 4	6110	Q	UEENS	WAY	WEST/	URONI	ARIO	S1.4	15515	SAUGA		W.N	н : ,	AN	90							
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23		REAN	
1 2 3 4 5 6 7 8	0000000000	00000000000	000000-000	0000000000	000000000	00000-000	000001000	000000000	0001000001	0 0 0 1 0 0 0 1	0001000	0 1 0 0 0 0 1	3301010001	0001	0001010001	0 0 0 1 0 0 0 1	00001010001	000-0-0000	0000000000	000000000000000000000000000000000000000	00010000	0001010000	000:010001	0001030001		00001010000
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21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 1	000001	000000000	000000001	0000000001	000000000	0 0 0 1 0 0 1 1	00001	0 0 0 0 0 0 1 1	0 1 0 0 0 0 0	00100000	0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0	010010000	0100100010	010010000	0000100000	0000100000	0000000000	0000000000	000000000	0001000000		0000100000
31 MEAN	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	.4

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT - SULPHUR DIOXIDE UNITS TION - C NO 46110 QUEENSWAY WEST/HURONTARIO ST.MISSISSAUGA														1 PAR	TS/MI	LL:0	N						
	STA	TION -	c	NO	46110	0	UEENS	WAY	WEST/H	THORU	ARIO	ST.M	15515	SAUGA		NON	н • ғ	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9	000000010	0 0 0 0 1 0 0 0 0 0	0000110000	0000110000	00000-0000	00000-000	0000010000	0000010102	0 0 0 0 1 1 0 1 0 2	0000100102	0 1 0 0 1 0 2	0 0 0	0 0 1 0 0	0000210000	0000210100	0000000	0000100000	0000-00000	0000000000	0100100000	0000100000	1000000	0000=00000	0 0 0 1 0 0 1	00001
11 12 13 14 15 16 17 18	0 0 0 0 0 0 0 1 1	00000000	000000001	000000000	0 0 0 0 0 0 3 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	000000000	00000	0001000011	00000011	0 0 1 1 1 1 0 0 0 0 0 0 0	1000001	1031000021	1 0 0 0 1 2 1	0 0 0 0 1 2 1	0 0 0 0 1 1 1	0 0 0 0 0 1 1	0 0 0 0 0 1 1	0.001000121	0 0 0 0 1 1 1	0000100011	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	1 0 1 0 0 0 0 0	1 0 0 0 0 0 0 0	100000001	100000000	100000000	100000000	100000000	0 0 0 0 0 0 0	0 2 0 0 0 0	1 0 0 0 0 0 0 0	-0-000000	0 0 0 0	0 0 0 0 0 0	000000000000000000000000000000000000000	10000000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	1 0 0 0 0 1 1	3 0 1 0 0 0 0 1 1	201000000	4 0 1 0 0 0 0 2 0	301000010	000000000000000000000000000000000000000	000000000000000000000000000000000000000
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PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	STA	TION	· с	NO	46110		QUEÈNS	WAY	wEST/	HURON	TARIC	ST.#	155159	AUGA		LON	тн - :	AR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	10	12	13	14	15	1 ò	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0	000000000	0 2 0 1 1 0 0 0 0 0 0	0 2 0 1 1 0 0 0 0 0	0 1 0 0 0 0 0 0	0 1 0 0 1 0 0	0 1 0 1 0 0 1 0 0	0 1 0 0 0 1 0 0	. 1 1 0 0 0 1 0 0 0	0 1 1 0 0 1 1 0 1	0 0 1 2 1 0 1 1 0 1	0 0 1 2 0 0 0 0 1	012200002	0 1 2 0 0 0 0 0 1	0 1 1 2 0 0 0 0 0 0 0 2	001200000	0012001002	001.001001	0001001001	0 0 0 1 0 0 1	0 0 0 1 0 1 1 0 0 1	0001012001	1 0 1 2 0 0 1	2 0 1 1 0 0 1	0 1 1 1 0 0 0 0 0 1
11 12 13 14 15 16 17 18 19	00000000	0010000000	0000000000	000000000	0 0 0 0 0 0 0 0	001000000	001000001	13 0 0 0 0 0 0 0 0 0 0 0 0	21 0 0 0 1 0 0 2	0 0 0 1 0 1 4	0 0 0 0 1 1 0 1 3	0:100010	0 1 6 0 0 0 0 0 1 2	7 0 0 0 0 0 1 2	0.20000012	0.00000011	0 2 0 0 0 0 0 0 1 1	000000000	020000010	020000000	0100000000	010000000	0.0000000	0-0000000	3000001
21 22 23 24 25 26 27 28 29	000000000	0000001000	000001000	0000000000	00000000	000000000	0000000000	000000101	0000011001	000001201	0 1 0 1 1 0 1	0 1 0 1 0 1	0 1 1 0 1 1 0	0 1 0 1 0 2	0 1 2 0 1 0 1 0 1	0 1 1 1 0 1 1 0 1	0 1 1 0 0 2 1 1 0 1	0 - 0 0 0 - 1 0 0	000000000000000000000000000000000000000	0 1 0 0 1 1 0 1 0 0	0 1 0 0 0 0 0 1 0 0	0+00000+00	0-00000000	0000000000	0-00000-00
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1	0	0	0	o c	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- 5	SULPHI	JR DIO	XIDE							3	JNITS	- 0.	01 PAR	RTS/MI	LLIO	N						
	STA	TION -	С	NO 4	46110	(	UEENSWA	Y	WEST/H	URONI	TARIO	ST.MI	\$\$15	SAUGA		MON	тн - д	PR	80						
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11 12 13 14 15 16 17 18 19	000000011	0 0 0 0 0 0 1 1	000000011	000000000	000000000	0000000000	00000000	0000000000	00000-040	0000000000	0 1 1 0 1 0 2 0	0 0 0 1 1 0 1 1 2 1	0000001111	0 0 0 0 0 1 4	000000211	000.000	0000001	000000121	000000111	0000000111	0 0 0 0 0 1 1 1	000000111	0000000111	0 0 0 0 0 0 1 1 1	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	1 0 0 0 0 1 0 1 0	1 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0	1 1 0 0 1 0 1 0 1 0	0 0 1 0 1 0	1 0 0 0 0 1 0 1 0	1 0 0 0 0 1 0 1 0	1 0 0 0 1 0 1	1210011010	1 2 2 0 1 1 1 0 1 0	1 2 0 1 1 1 1 1 0	1 7 2 0 1 1 1 1 1 0	1 2 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 0	1 1 1 1 1 1 1 1 1 1 1 1 0	3 1 1 1 0	2 0 1 1 1 1 1 1 2 2	1010111200	1 0 0 0 1 1 1 0 0	1 0 0 1 1 1 1 0 0	1 0 0 1 1 1 0 1 0 0	1 0 0 1 1 1 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT	. 5	ULPH	UR 01	STIDE								UNITS	- 0.	31 PA	RTS/M	ILLIO	N						
-		TION .	c		46110		UEEN:	SWAY	WEST/	HURON	TARIO	ST.M	15515	S AUGA		MON	Th - 1	YAS	80						
													13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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MEAN	0	0	0	0	u					-				-											

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

PERCENTAGE OF DATA VALID - 91.8 PERCENTAGE OF DATA INVALID - 8.2

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.0 STATION - C NO 46110 QUEENSWAY WEST/HURONTARIO ST.MISSISSAUGA														I PAR	TS/MI	LLION	•							
	STAT	ION -	c	NO	46110	0	UEENSW	AY	WEST/H	IURON	TARIO	ST.MI	\$\$155	AUGA		NONT	н - ј	UN	80						
HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN .
1 2 3 4 5	1 1 1 0	1 1 1 0	1 1 1 0	1 1 1 0	1 1 1 1 0	1 1 1 0	1 1 1 0	1 1 1 0	1 1 1 2	1 2	0 2	1 2 1 0 1	2 1 0 1	2 1 0 3	3 1 0 1	2 1 0 2	1 0 1	1 1 0 1	1 1 0 1	3 0 0	2 0 0	1 0 0 1	1 0 0 1	1 0 0 1	1 1 0 1 1 1
6 7 8 9	000	0	1 1 0 0	1 0 0	1 0	0	1 0 0	1 0 0	0	1 0 0	0	0	1 0	, 1 0 0	0	0	0	0 0	0	0	000	0	0 0	0	0
11 12 13 14 15 16 17 18 19	0-0-000000	0 1 0 0 0 0 0 0	0101000000	010100000	0 0 0 0 0 0	0100000000	0 1 0 0 0 0 1 0	0211000000	0	001010	01001010	1 0 0 1 0 5 0	0111001010	00110000080	100000	00100100	3010010030	0 1 0 0 1 0 2	1 0 1 0 0 1 0 0	1 1 0 0 1 0 2 0	210001000	. 210000000	100000000		00000
21 22 23 24 25 26 27 28 29	0 0 0 1 2 1 0 0 0 0	0001210000	000001-0000	0000110000	0 0 0 0 1 1 0 0 0 0	0001	0 0 1 1 1 0 0 0 0	0011110000	1 1 2 2 2 0 0	0 1 1 2 1 1 1 0 0 0	2 2 1 1 0 0 0	3210000	01252-0000	1 1 6 2 1 0 0 0 0	22:000	1 2 2 1 0 0 0 0	2 2 0 0 0 0	001220000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 1 0 0 0 0 0	0 1 0 2 1 0 0 0 1	0 1 0 0 0 0 1	0011100000	001 4000000	1 1 2 1 1 0 0 0 0 0
MEAN	0	٥	0	٥	0	٥	0		1	4	1	1.	1	1	1	,	1	1	0	1	1	0	0	0	0.6

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>--</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

<sup>2. ..</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS, MILLICH

		TATION - C NO 46110 QUEENSWAY WEST/HURONTARIO ST.MISDIS													3802 5	5									
	STA	TION -	C	NO 4	6110	Q	UEENS	YAW	WEST/H	URON	TARIO	ST.A	15515	S AUGA		MONT	'н •	JL_	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MEA	4
1 2 3 4 5 6 7 8 9	010000010	010010010	000010010	000010010	000000000000000000000000000000000000000	00000010	000100010	001100010	0 0 1 1 0 0 1 1 0	001100010	3 : : : : : : : : : : : : : : : : : : :	001110001	0 0 3 1 1 0 1 0 0 1 0	0 0 5 1 1 0 2 0 1	0041	0 0 5 1 1 0 1 1 2	00000011	00-0000	0001	000000101	00000000	000,00,0	0 0 1 1 0 0 1 1 1	0 0 1 1 0 0 2 0 1 1	0 0 1 1 0 0 1 1 1
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THE AM	0		U	U			-		0	~	~						•	.,	-		_		-		

PERCENTAGE OF DATA VALID . 95.7 PERCENTAGE OF DATA INVALID . 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTAN	Τ -	SULPH	IUR O	OXIDE	E							UNITS	- o.	01 F4	RTS, A	ILLLIC	N						
	ST	ATION	. с	NO	46110	•	QUEEN	SWAY	WEST/	HURON	TARIO	ST.N	15515	SAUGA		NON	тн -	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	••••	••••	•••	••••	••••	••••	O	0	0	••••			DATA DATA DATA DATA OATA OATA	INVAL INVAL INVAL INVAL INVAL	0 -		••••			0	0	0	0 0	0.0	
10 11 12 13 14 15 16 17 18 19	0 000000000	0 0000000000	000000000	0 0000000000	0 000000000	0 000000000	000000000	0 000000000	0 0000100000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 33000 0000	0 0 00000000	0 0 0 0 0 1	16.	a	0 0000000000	0 0000000-00	0 0000000	0 0000000	0 0000000000	0 000000000	000000000	0000000000	+000000000
21 22 23 24 25 26 27 28 29 30	0 1 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0101000000	0 1 0 0 0 0 0 0 0 0 0	0	000000	0 1 0 1 0 0 0 0	0	1 0 1 1 0 0 0 0 0	7	0 2 1 0 0 0	1 2 0 1 3 0 0 1 1 3 0 0	1 1 0 0 3 3 0 0 1 6 0 0	0100200000	0 0 0 0 0 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-00000000000000000000000000000000000000	000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN	0	0	0	0	0	0	0	0	0	0	1	3	,	1	1	0	0	o	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 72.8 PERCENTAGE OF DATA INVALID - 27.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- . 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS MILLION

	PQ	LLUTA	NT -	SULF	HUR DI	OXIDE										20.	10.000								
	ST	ATION		C NO	46110	,	QUEEN	SWAY	WEST/	HURONT	ARIO	ST.M	155155	AUGA		HON	тн -	SEP	60						
HOUR	1	2	3		5	6	7	8	9	10	1 Ĭ	12	13	14	15	16	1,7	18	19	20	21	22	23		MEAN _
1 2 3 4 5 6 7 8 9	0 0 0 0 0 1 0 0 0	000000000	0000			0000000000	000-000000	0000000110	000000-00	0000000000	0000000000	0000000000	000001301	0040000101	00000000	0000000	0010001001	000101	0011001	0 0 1 1 0 0 0 0 1	0000000	000100001	00000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19 20	1 0 2 2 1 1 0 1 0 1	1022110101			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0	100012011	0001	1 : 0 0 2 1 0 2 0 1	0000120201	00000000111	1011300101	1 2 0 0 2 1 1	1 0 0 1 1 0	000100100	0000	0 0 1 1 0	1 1 0 0 1 1 0 0	0 3 1 0 1 0 0 0 1 0	0 2 1 1 0 1 1 0	0 1 1 1 0 1 1 1 0	0 2 2 1 1 0 1 0 1 0	0211100000	1 1 0 1 0 1
21 22 23 24 25 26 27 28 29 30	22120001	21120001	•••	2	2 1 2 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0	1 2 1 1 0 0 0 0	0 1 2 1 1 0 0	1 2 1 0 1 0 0 2	2 1 1 1 0 0 0 1	1 1 1 0 0 2	0 1 1 2 0 0 0 2 2	22210021	22100011	0 1 2 2 3 1 0 0	C 1 1 2 4 1 1 0 0 2	3 3 1 0 0 0 1	1 2 1 1 0 0	1 2 2 2 1 0 0	2 2 2 2 0 0 0	1 2 1 2 1 0 0	1 1 1 0 0 2 1	1 1 0 0 2 1	1 1 1 0 0 1 1	1 2 1 2 1 0 0	0 1 2 2 1 0 0
MEAN	í	1		1	1 0	0	٥	1	٥	1	1	1	1	1	•	1	0	1	1	1	1	1	1	1	0.6

PERCENTAGE OF DATA VALID - 97.1 PERCENTAGE OF DATA !NVALID - 2.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES GRANCH

	POI	LLUTAN	T -	SULPH	UR DI	OXIDE								UNITS	- 0	ni Pa	ATS/M	1110	N						
	STA	TION	- с	NO	46110		QUEEN	SWAY	WEST/	HURON	TARIO	ST.X	15515	SAUGA		MON	тн ∙	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
1 2 3 4 5 6 7 8 9	100020001	1000020001	0000000	10002	100030000	100000000	0000000	10002000	20000	100000000	10000			0 0 1 1 0 0 1 0 1 0 1		0000-00-0	00000010	00000010	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	1 0 0	1 0 0	•••	0000	00000	0000	0000	00000		00000	0 0 0		DATA DATA OATA O	0	ID - IO -	0000	3 0 1 0 0 0	0000	0 1 0 0	201000	100000	1 0 0 0 0 0	0000	0 0 0	0 0 0
21 22 23 24 25 26	0	0	000	000	0	0	0	0	0	0	0		CATA	0	10 -					0				••••	
27 28 29 30	0 0 0	000	000	000	0 0	000	0 0 0	0 0	0 0	000	000	000	0	0	000	0	000	0000	0000	0	0	0	0000	0	
31	0	0	0	٥	O	0	0	٥	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	
MEAN	0	0	0	٥	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 67.5 PERCENTAGE OF DATA INVALID - 32.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OF PARTS/MILLION

QUEENSWAY WEST/HURONTARIO ST. MISSISSAUGA "ONTH + NO. 80 STATION - C NO 46110 22 23 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 HOUR G 0 0 5 0 0 2 1 .... . 0 001 0.0 000 0000000000 0000000000 1 2 3 4 5 6 7 8 9 10 000000 0 200 0000000 0000000 .... o 000000 0 ... 100 00 00 0 0 O 11 12 13 14 15 16 17 18 19 0000000-00 0000000 00000011 00100011 0010001 00-0000 0200001001 00 00 00-0000-00 0000000 0 001 0 0 00 00 0 00 00 00 0 0 21 22 23 24 25 26 27 28 29 30 2 0 0 0 4001 3 3 0 0 0 0 0 0 0 \*\*\* ...0 . 0 . . . 0 ...0 DATA INVALID 0 0 0 0.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 MEAN

PERCENTAGE OF DATA VALID - 82.8

PERCENTAGE OF DATA INVALID - 17.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN CHE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS . O OF BERTS/MILLION

	ST	ATION	. (	NO.	46110	)	QUEEN	SWAY	WEST/	HURON	TARIO	ST.	415515	SAUG	Δ.	MON	тн - (	DEC	80						
HOUR DAY	7	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0 0 1 1 1 0 0 0	0 0 1 1 1 0 0	0 0 1 1 0 0 0	1 0 1 1 1 0 0	1 0 1 2 1 0 0	00100	0 1 1 1 0 0	0 1 1 1 0 0	0 1 2 1 1 0	0 1 2 1 1 0 0	0 1 2 1 1 0 0		DATA DATA 1 5 3 1 1		1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 8 1 1 0	1 G 3 1 1 0	00011030	0 0 1 1 0 1 0	00211000	0 1 2 1 1 0 0 0	0 1 2 1 1 0 0 0	0 0 1	00221001	1 2 1 1 1 0
11 12 13 14 15 16 17 18 19	1 1 0 0 0 2 0 1 1 0	000000000000000000000000000000000000000	0000	2 1 0 0 1 1 0 1 1 0	0 0 1 1 0 1 1	000111111111111111111111111111111111111	000	1 1 0 0 1 1	1 1 0 1 0 0 1 0	0 1 0 0 1 0	0000-0-0000	0 2 1 1 0 0 0 0 0	0111001	02.01.5001	0 3 1 5 0 0 1	2 : 0 4	0 2 3 1 1 0 1	0130310101	0 1 0 0 1 0 0	0 - 0 0 2 0 2 - 0 0	1 1 0 0 2 1 2 1 0 0	1 1 2 1 0 0	000000000000000000000000000000000000000	0000	1 1 2 0 1 1 1 1 0 0
21 22 23 24 25 26 27 28 29 30	3 3 0 1 3 3 6 2	3 3 1 1 3 3 6 3	0 1 4 3 0 1 2 3 6 3	0 1 5 2 1 1 2 3 6 3	1 5 2 1 2 2 3 6	0 1 6 2 1 2 2 3 6 2	0 1 6 2 1 2 3 4 4 3 3	0 1 6 2 1 1 3 4 4 3	0 1 4 1 1 1 2 4 4 2	0 1 4 1 1 1 3 4 4 2	0 2 3 1 1 3 3 5 4 2	0 3 3 1 1 1 3 3 4 5 5 3 2	0 2 3 1 1 3 2 5 5 2	3 1 1 2	1 1 2 2 5 2	3 1 1 2 2 4 2	0131122420	0-11-11-11-0	0 1 2 1 1 2 2 5 2 0	0 1 2 1 1 3 3 5 2 0	0 1 2 1 1 2 2 5 2 0	0 1 2 1 1 2 2 5 2 0	0 2 2 1 1 2 3 5 2 3	3 1 1 2 3 6 2 0	0 2 3 1 1 2 2 4 4
31 MEAN	0	0	0	0	0	0	1		1	1	1		1	1	1	0	0	0	0	0	0	0	0	1	1.2

PERCENTAGE OF DATA VALID - 91.4

PERCENTAGE OF DATA INVALID . 8.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1990

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	300,770, 0102102			24
STATION - C	NO 46110 QUEENSWAY	WEST/HURONTARIO ST.MISSIS	SAUGA	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.4	1	11
FEB	29	0.3	2	4
MAR	31	0.4	3	21
APR	30	0.5	1	12
MAY	28	0.3	2	6
JUN	30	0.6	3	18
JUL	30	0.3	1	5
AUG	23	0.3	3	40
SEP	29	0.6	2	4
ост	20	0.3	1	25
NOV	25	0.3	2	5
DEC	28	1.2	4	8
YEAR	334	0.5	4	40

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION . C NO 46110 QUEENSWAY WEST/HURONTARIO ST.MISSISSAUGA MONTH 00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 40VER TOTAL FEB MAR APR MAY JUN JUL AUG J SEP OCT NOV DEC YEAR FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA CONCENTRATIONS
FREQUENCY DISTRIBUTION. PERCENT
50 70 90 95 ARITH 10 30 MAX MEAN VALID MIN

0.0 0.0 0.0 0.1 0.9 1.5

91.2

3.5

0.5

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	· с	NO	47041		FED M	ANPOWER	BLC	G 48	OWEN	ST.	BARR	31		MON	uth -	JAN	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5	0	000	000	0	0	0	0	0	0	0	0	***	DATA	O O 1 I NVAL I NVAL	ID -			0		0				1		
7 8 9 10	1	1	1 1 1	1	1 1	1	1	1	1	1 1	1 1 2	1 1 2	1 1 3	3	1 1 2	1 1 2	0	0 1	1 0 1	1	1 1 1	1	1 1 1	1 2	1	
11 12 13 14 15 16 17 18 19	2 0 0 2 1 0 1 1 0 0	3002100000	3000-00000	200210000	2 1 0 0 0 0	20-2200000	2000000	2 0 1 2 2 0 1 0 0 0	1022201001	1012101001	101101001	1 0 0 2	0011100004	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 1 0 0 1	0011101000	10101000	101000	1 0 1 0 1 0 0 0	0011101000	0011001000	00 21 01 1000	0000000	0000000	1 0 1 1 0 0 1 1 0 0 1	
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000010000	0100100004	0 1 0 0 0 0 0 0 3	0 1 0 0 0 0 0 2	0 1 0 0 1 0 0 0 0 1	0-00000000	0 1 0 0 2 0 0 0 0 1	000000000	0000100000	0 0 0 0 1 0 0 1 2 0	0 1 0 0 0 0 3 0	0100100010	0 1 0 0 0 1 0	0 1 0 0 0 0 1 0	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100000000	000000000000000000000000000000000000000	1 1 0 1 0 0 0 0 1 0	0000-000NO	01000030	0001000030	000000000000000000000000000000000000000	0 1 0 0 0 0 1 1	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	0	1	1	0	0	0	0	1	1	0	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0.5	

PERCENTAGE OF DATA VALID - 86.7 PERCENTAGE OF DATA INVALID - 13.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES ERANCH

	PC		MT .	SULPH	IUR DI	OXIDE								UNIT	. 0	.01 P	ARTS/	MILLIC	N						
	ST	ATIO		NO	47041		FED M	ANPOWER	BLDG	48	OWEN	ST.	BAR	RIE		MO	NTH -	FEB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9											i		DATA DATA DATA JATA UATA U	I NVAI I NVAI I NVAI I NVAI I NVAI I AVAI I AVAI	ID - IO - ID - ABLE ABLE ABLE	:									
11 12 13 14 15 16 17 18 19	01000031	01000021	0 1 0 0 0 0 2 1	0 1 0 0 0 0 0 2 2	0 0 0 0 0 2 2	01000022	0 1 0 0 0 1 2	000000000000000000000000000000000000000	00000113	. 0 0 0 0 0 1 1 3	0 0 1 1 0 1 1 3	0001100123	1 0 1 0 0 1 2 4	0	0 0 1 1 0	0000	0001	0 0 0 1 2	000000000000000000000000000000000000000	0000	0 0 1 1 1 1 1	1 0 0 1 1 0 2 1 1	0 0 0 0 0 2 1 1	0 0 0 0 0 2 1 1	0 0 0 0 0 0 1 1 1 2
21 22 23 24 25 26 27 28 29	0	1 1 0 1	1 1 0 1	0 1 0 1	0000	0 0 0 1	0 0 0	0 0 0	0 0 1 1 1	0 0 1 0	1		DATA	I NVA	. ID .	0 20	0	0 1 1 0	0 1 1 0 0	0000	1	0 0 1	0 0 1	1	0 0 1 0
MEAN	1	1	1	Ť	1	1	0	٥	1	•	1	Ť	1	1	,	1	3	0	c	0		ï	°o	0	0.6

PERCENTAGE OF DATA VALID - 42.5 PERCENTAGE OF DATA INVALID - 33.2 PERCENTAGE OF DATA UNAVAILABLE - 24.3

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### THE ENVIRONMENT - AIR RESOURCES BRANCH ONTARIO MINISTRY OF

UNITS - 0.01 PARTS, MILLIGN POLLUTANT - SULPHUR DIOXIDE - MAR MONTH FED MANPOWER BLOG 48 OWEN ST. MARR: E C NO 47041 STATION 24 MEAN :6 HOUR 0 1 1 0 1 0 1 3 2 1 2 0 A T A 0 A T A 03-2-0 INVALID INVALID ...0 .... 00-0000.0000 0-00000-00 000000-00 0-0000-0-0000 22 23 24 25 26 27 28 29 30 0-00000000 0100000-00 0-000000000 0-00000000 0-00000000 0-00000000 000000-00 0 1 0 0 u v v o o o 0.4 o MEAN

PERCENTAGE OF DATA VALID - 81.5

PERCENTAGE OF DATA INVALID - 18.5

PERCENTAGE OF DATA UNAVAILABLE -

---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE FED MANPOWER BLDG 48 OWEN ST. BARRIE MONTH . APR 24 MEAN HOUR DAY 0 1 0 0 + 0 0 20 0-0 0-0 0 20 00-0 1 2 3 4 5 6 7 8 9 10 00-0 00-0 00-0 00-0 -00 ò 00000-00--.0000 000000---00000-00-1 0000000-12 13 14 15 16 17 18 19 20 00000000--00000000---000000000 1 2 3 1 1 0 1 1 -000-0-000 2000-0-000 -0000000000 -000000000 22 23 24 25 26 27 28 29 30 0-00000000 0-00000000 0-00000000 0-00000000 0-50-000 0-00-0.3 o 

PERCENTAGE OF DATA VALID - 81.4

. 18.6 PERCENTAGE OF DATA INVALID

PERCENTAGE OF DATA UNAVAILABLE -

- ... INDICATES DATA IS UNAVAILABLE 2.
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	STA	TION	. c	NO	47041		FED MA	NPOWER	BLD	G 48	OWEN	ST,	BARR	: E		**01	vTH -	MAY	80						
HOUR	1	2	3	4	5	6	7.	8	9	10	101	12	13	14	15	1.6	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5	000000000	00000	1 2 0 1 1 2	0 0 0 0 1 0	0 0 0 1 0	00000	0 1 0 0 0 0	0 1 0 0 0	040000	0 2 0 0 0 0	0 1 0 0 1 0	0 - 0 0 - 0	0 0 1 0	0 0 0 1 0	2 1 1 2	1 1 1 0	1 2 1 1, 1	0	0000	0 0 0	0 0 1	0 0 0 1 0	0 0 0 0	0 1 0 0 0 0	0 0 0
7 8 9 10	0	0000	1 1	0 1	0 0	0 1 0 0	0	0 0	0	0 0	0 0 0	0 1 0 0	0 0 1	0	2	1 0 1	0 1 0 1	0	000	0 1 0 1	0	0	0 0 0	0 0 1	0
11 12 13 14 15 16 17 18 19	1000000000	1000000000	2-00000-00	100000100	000000000000000000000000000000000000000	000000000000000000000000000000000000000	1 0 0 0 0 0 0 0	100000000	00000000	1000000000	100000000	1 0 0 0 0 1 0 1 0	0 0 0 0 0 0	1204001010	0 1 2 1 1	1 0 1 0 1 1 1	0 1 0 1 0	0	00000	1 0 0 0 0 1 0 0 0	0 1 0 0 0 0 0 0 0	0000000000	000000000	000000000	. 00000000
21 22 23 24 25 27 28 29	0000000000	0000000000	000000000	000000000	000000000	000000000	000000000	1000000000	100000001	1000000001	000000000000000000000000000000000000000	100000000	100000000000000000000000000000000000000	100000001	100000000	00000000	0 1 0 0 0	1000001000	4000	1 0 0 0 0 1 0 0 0	1000000000	100000000	000000000	00000000	000000000000000000000000000000000000000
31 Mean	0	0	0	٥	C	0	0	0	0	0	••••		••••	1			1						۰۰۰۰		0.3

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES SHANCH

	PC	JLLU'	TANT	- 5	SULPH	UR DI	OXIDE	1							UNITS	· o.	01 PA	RTS/L	11110	N							
	S	TATI	ON .	C	NO	47041		FED N	ANPOWE	R BL	DG 48	OWEN	ST.	BARR	e: E		MON	TH -	JUN	80							
HOUR DAY	1,	:	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9							15						*	DATA DATA DATA DATA DATA DATA DATA	INVALI INVALI INVALI INVALI INVALI INVALI INVALI INVALI	0000000											
11 12 13 14 15 16 17 18 19 20	000000			. 000000	0 0 0 0 0 0	0 0 0 0 0 0	000000	00000	0 0 0 0 0 0	00000	00000	0000		DATA	1 NVAL1	2	00000	000000	00000	00000	000000	0 0 0 0	00000	00000	000000000000000000000000000000000000000	0 0 0 0	
21 22 23 24 25 26 27 28 29	0000		• • •	. 00000	0000	1 0 0 0	2 0 0 0	1 0 0 0 0	0 0	0000		10000		DATA	INVALI INVALI INVALI O O O O	0 -	0 0 0 0 1 1	0 0 0 0 1 1	0 0 0 1 1	0 0 0 0 1 1	0 0 0 1 1	000001	00000	00000	0 0 0 0 0	0	
MEAN	0	1	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	C	0	٥	0	0	0	0	0	0.1	

PERCENTAGE OF DATA VALID - 38.5 PERCENTAGE OF DATA INVALID - 61.5 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POLI	UTANT	. \$	ULPH	UR DIOX	IDE							(	JNITS	- 0.0	01 PAS	ITS/M	LLION	ı							
	STAT	ION -	c	NO	47041	F	ED MAN	POWER	BLOC	48	OWEN	57.	BARR	E		MONT	гн - ,	JUL	80							
HOUR	İ	2	3	4	5	6	7	,8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	KEAN	
1 2 3 4 5 6 7 8	0000000000	0000000000	0000000000	0000000000	00000000	0000000000	0001000000	0001000000	00000000	000200001	0 0 0 0 0 0 1	0001000000	0001000010	1000010	00001000110	0 0 0 0 0 1 1 0	0001000110	0011010010	0012010010	0011000010	0000000000	0000000000	0000000000	0000000000	4 4 9 9 9	00000000
11 12 13 14 15 16 17 18	0000000000	0000000000	0000000000	000000000	000000000000000000000000000000000000000	0000000000	000000000	0000000000	0000000000	0010000010	000000000000000000000000000000000000000	000110000120	0011100120	01120	0011101120	0001102120	0 0 1 2 1 0 2 1 2 0	0 0 1 2 1 0 1 1 2 0	0 0 1 2 1 0 0 2 2 0	0 0 1 2 1 0 0 1 1 0	0 0 1 1 0 0 1 1 0	0 0 1 1 0 0 1 1 0	0001100110	0001100110	4	0001100110
21 22 23 24 25 26 27 28 29	0000000100	000000000	0000000-00	0000000-00	000000100	0000000100	000000000000000000000000000000000000000	0 0 0 1 0 0 1 0 0	0000100100	0000100110	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 1 1 0	0 0 0 1 1 1 0 0	0 0 0 1 1 0 0 0	0000	0 0 0 0 1 1 1 0 0 0	000:111010	00001	0000101010	0000101010	0000101010	0 0 0 0 1 0 1 0	0 0 0 1 0 0 0	0 0 0 0 1 0 0 0		0000101100
31	0	0	0	0	0	0	0	. 0	0	. 0	0	1	2	2	1	0	1	1	1	1	1	1	_0	0	0.	3
MEAN	0	O	0	0	Ü	•	•		•	•	-	•			-											

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLL	UTANT	- 51	ULPH	JR 010	IDE							i	INITS	- 0.0	1 PAR	TS/MI	LLIO	4						
	STAT	ION .	c	NO 4	17041	F	ED MAI	NPOWER	BLDG	48	OWEN	ST.	BARR	E		MONT	H - A	UG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	0000000	110000000	110000000	1100000000	100000000	0100000000	0 1 0 0 0 0 0 0 0	0-00000000	1 1 0 0 0 1 0 0 0 0	1 1 0 0 1 0 0 0	1 1 0 1 1 0 0 0 0	1 1 0 1 1 0 0 0	2 1 1 0 1 1 0 0 0	2 1 1 0 1 0 0 0 0 0 0	1 1 1 1 0 0 0 0	1 1 0 0 0 1 0	1 1 1 0 0 0 0 0	1 1 1 1 0 0 0 0 0	1 0 0 0 0 0	1 1 1 0 0 0 0 0	0111000000	0001000000	0000000000	000000000	1 1 0 0 0 0 0 0 0 0
10 11 12 13 14 15 16 17 18 19	0 000000000	0 0000000000	0 0000000000	0000000000	00000000000	0000000000	00000000000	0000000000	0000000000	0000000000	00000000000	000000000	0	0 0 0 0 0 0 0 1	1 2 0 0 1 0 0 0 0 1	0000001	-00000000	000000	1 1 0 0 0 0 0 0 1	1 10000000	0000000000	0000000000	0000000000	5100000000	0000000000
21 22 23 24 25 26 27 28 29	000000000	0000000	00000000	000000000	000000000	000000000	00000000	000000000	0 0 0 0 0 0 0 0	000100000	0 0 1 1 0 1	000101101	1 0 0 1 0 0 1 0 1 0	1 0 0 1 0 1 1 0 1 1 NVAL	1 0 0 1 1 2 0	1 0 0 1 1 1 2 0 2	10001	0001111002	100010102	10001	00000101	000000101	000000	00000000	0 0 0 0 1
31												2 <del>-</del> 40	ATAG	INVAL	10 -										
MEAN	0	٥	0	0	0	0	٥	٥	0	٥	٥	٥	C	٥	1	1	1	1	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 93.0

PERCENTAGE OF DATA INVALID - 7.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*\*\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES ERANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

														2007 W 1122	D-500000										
	ST	ATION	· c	NO	47041		FED N	MANPOW	ER BL	DG 48	OWEN	ST.	BAR	81 <b>5</b>		"ON	тн •	SEP	80						
HOUR	4	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0-00000	D 0 0 0 0 0 0 0 0	0000000	000000	000000		0000000				0010000		DATA DATA 1 0 0 0 0	1 NVALID 2 0 0 1 0 0 0 0 0		0 2 0 0 - 0 0 0	02000000	0 2 0 0 0 0 0	0 1 0 0 0 0 0	0-000000	0 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0	0 1 0 0 0 0 0 0	0 1 0 0 0 0 0	1 0 0 0 0
11 12 13 14 15 16 17 18	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	00000000	000000000	0000000001	0000010001	0000010001	00000-0002	000000000000000000000000000000000000000	00000-000-	0000010001	00000000	00000-0000	0000-0300	0 0 0 0 1 0 0	00000-0000	00000000	000000000	00000000	00000
21 22 23 24 25 26 27 28 29	0000	0	0 0 0	0000	0 0 0	0	0 0 0	0000	0000	0 0 0	0 0 0		DATA DATA DATA	O O O INVALID INVALID INVALID INVALID	) . ) - ) .	0 0 0	0 0 0 0	0000	0000	0000	000	0	0 0 0	000	0000
MEAN	0	0	0	0	0	٥	0	0	0	0	0	0	0	٥	0	0	O	O	С	0	0	O	u	ú	Q.1

PERCENTAGE OF DATA VALID - 70.8 PERCENTAGE OF DATA INVALID - 29.2 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	PO	LLUTANT		SULPH	IC SUP	OXIDE							1	UNITS	- 6	O1 P41	975/MT	11.10	N						
	ST	ATION -	¢	NO	47041		FED N	MANPOWE	A 810	OG 48	OWEN	ST.	BARR	I E		MON'	гн - о	C T	80						
HOUR DAY	1	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 0000000000	000000000	000000000	000000000000000000000000000000000000000	000000000	000000000000000000000000000000000000000	000001000	000001000	0 0 0 0 1 0 0 0	00000-000	000000000000000000000000000000000000000	00000-000	000001020	000000000000000000000000000000000000000	0000001010	000000-0-0	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	0000100100	0 0 0 0 1 0 0 0	0000100100	00001	0 0 0 1 1 0 0	0000001100	000001100	0000-000	00000.01100	1 2 1 0 1	0000102001	0000112001	0 0 0 1	0000110001	0000	0 0 0 1 1 1 0 0 1	000000000	0000-0-000	0 0 0 1 0 0 0 0	0001010000	000-0-0000	000-00-000	000-00-000	000-00-000	0 0 0 1 0 0 0
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0 0 0	0001100000	000010000	000000	000010000	0000	0000-0000	0 0 0 1 0 0 0 1 0	0 0 0 1 1 0 0 0 1 0	0 1 0 0 0 0 0 0 0	0101000011	0 1 0 0 0 0 0 1 1	0 1 0 0 0 0 1 1	0 1 0 1 0 0 0 1 1	0 1 0 0 0 0 1 1	0 1 0 0 0 0 1 1	0101000011	0 1 0 0 0 0 0 1	010100001	0001000001	0001000001	00000000	0001000001	0000000
31 MEAN	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1 0	0	0	0	0	٥	0.2

PERCENTAGE OF DATA VALID - 97.7 PERCENTAGE OF DATA INVALID - 2.3

PERCENTACE OF DATA UNAVAILABLE - 0.0

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCURCES BRANCH

UNITS - 0.01 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - NOV STATION : C NO 47C41 FED MANPOWER BLDG 48 OWEN ST. BARRIE 20 21 22 23 16 17 10 11 12 13 14 15 18 19 HOUR 1 2 3 4 5 6 7 8 9 0000 0000 0000 0000 0000 0000 0000 0010 0010 0000 0000 0000 0010 0000 0000 0000 0-0 01-00-000-0:10011001 0 0210110 02-0200-0-00-00-000-0 031011 0410200001 04-0-00000 0210010001 0210010001 00000--0-0 0000011010 0-0-0000-0-0 000000-000 00-000-000 00-000-000 0010001000 0010011 0 00001 0000-0-000 0000101010 01010001 101 ò 0 01000 0 0 0 0 0 0 0 0 0 1 0 2000 0 1 0 1 0 1 1 0 0 1010 0 10-0 1000 0000 00 ò ò ò ò Ó ò 0 DATA UNAVALIABLE CATA UNAVAILABLE DATA UNAVAILABLE DATA UNAVAILABLE . DATA UNAVAILABLE

1 1

PERCENTAGE OF DATA VALID - 58.5

٥

MEAN

PERCENTAGE OF DATA INVALID - 20.1

0 0

PERCENTAGE OF DATA UNAVAILABLE - 21.4

0 1 0 0 0

Q

0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

0 0

CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O1 PARTS/MILLION

STATION - C	NO 47041 FED MANPOWE	R BLOG 48 CWEN ST. BARR	i.E.	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	26	0.5	1	8
FEB	12	0.6	2	4
RAM	24	0.4	2	3
APR	24	0.3	1	5
MAY	30	0.3	1	4
JUN	10	0.1	G	2
JUL	31	0.3	1	2
AUG	29	0.2	1	2
SEP	21	0.1	1	3
oct	30	C.2	1	2
NOV	17	0.4	1	4
YEAR	254	0.3	2	8

# ONTARIC MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE STAT

UNITS - 0.01 PARTS/MILLION

ATI	ON -	С	NO	470	41		FED	MAN	POV	ER	BLD	G 48	9 OW	EN :	ST.	AB	RRI	E								
,	MONTH	00	TO	05	06	ΤQ	10	11	TO	15	16	то	20	21	TO	25	26	τo	39	40	10	49	50	<b>acver</b>	TOTA	L
	JAN			644			1			0			0			0			0			0		0	6	45
	FEB			296			0			0			0			0			0			0		0	2	96
	MAR		9	606			0			0			0			٥			0			٥		0	ε	06
	APR			586			0			0			0			0			0			o		0	5	96
	MAY		9	729			0			0			0			0			0			0		0	7	29
	JUN		3	277			0			0			0			0			0			0		0	2	77
	JUL			741			0			0			0			0			0			0		0	7	41
	AUG		3	692			0			0			0			0			0			С		0	6	92
	SEP		!	510			0			0			0			0			0			0		0	5	10
	OCT			727			0			0			0			0			0			0		0	7	27
	NOV		9	421			0			0			0			0			0			0		0	4	21
- 1	YEAR		6	229			1			0			0			0			0			0		0	62	30

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT					CONCEN	TRATIONS					
OF DATA				FREQUENC	Y CISTR	BUTION.	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
77.5	n	0.0	0.0	0.0	0.0	0.7	0.9	1.5	1.9	а	0.3

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

		POLL	THATL	•	SULP	HUR DI	OXIDE									UNITS	- 0	.01 P/	RTS/	AILTIC	N							
		STAT	ION -	c	NO	48002	2	TRAIL	ER/MT	C YARD	#9	HWY	47.	51	DUFFY	ILLE		MO	NTH -	JAN	80							
HOUR	9	1	2	3	4	5	6	7	8	9	10	1.1		12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	• • • •	0	0 0	0 0 1	0 0 1	0 0 1	0 1	1 0 1	0	0	1 0 0	0000	••	1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	INVAL INVAL INVAL INVAL INVAL	0 1		0 1 0	0 0	 0 0 1	0 0	0 0 0	0000	0 0 0	0 0	(	)
11 12 13 14 15 16 17 18 19		• ••		• 0000	0000		0000				0000	00000	••	•	ATAC	I NYAL ! NYAL ! NYAL ! NYAL ! NYAL	. ID -	0 0 0 0 1	0000	00000	00000	0 0 0 0 0	00000	00000	0000	1 0 0 0 0		. 0001
21 22 23 24 25 26 27 28 29 30		0	0 0 0	000	000	0	000	0 0 0	0	0 2 0	0 1 0	0	••	* * *	ATAC ATAC ATAC ATAC	O 1 I NVAL I NVAL I NVAL I NVAL I NVAL	. ID - . ID - . ID -								0	00		•
31		0	0	0	0	C	0	0	0	0	0	0		0	0	1	1	1	7	,	0	0	0	0	C	0		)
MEAN	(	0	0	0	0	0	٥	0	0	0	0	0		0	1	1	1	0	0	0	0	0	0	0	0	0	0.3	2

PERCENTAGE OF DATA VALID - 35.5 PERCENTAGE OF DATA INVALID - 64.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS . O. O. PARTS, MILLION

	ST	ATION		. NO	48002	!	TRAIL	ER/MT	C YAR	0 *9	HWY .	7. 5	CUFFV	ILLE		ves	į,	FEB	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24	MEAN
1 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		S	٥	0	0	0	0	0	0	0
3	1	1	o	0	0	o o	0	0	0	0	0	0	٥	0	0.2		2	0	1	0	0	0	0	0	0
5	4	3	2	1 2	Ī	1	1	1	1	1	1	1	1	1	2	3	40	4	3	2	2	1	1	0	1
7 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	1	1	0	0	0	0	0	0	1	1	3	0	0	2	0	1	0	0	0	0	0	0	0	1
11	0	0	1	2	3	2	1	•	1	1	1	1	1	1	!	1	t	1	1	0	1	2	1	٥	1
13	-		0	0	-	0		0	0	0	0				16.	1	1	1	1	1	1	1	2	2	******
14	0	0	0	0	0	0	0	0	0	0	0	0	000	000	1	1	1	1	1	0	0	1	0	1 0	0
16 17 18	0	0	0	ò	ò	ò	ò	ė	0	ò	0	0 0 0	0	000								!	<u>i</u>	!	
19	••••			••••	į	1	1	1	1	1	1	0	0	0	1	1	1	0	1	1	0	0	0	0	1
21	0	٥		0							0	0	0	0	0	٥	0	٥	0	o	٥	0	0	0	0
22	0					0	0			0	0	0	۰				• • • • • • • • • • • • • • • • • • • •		00	0	0	0	0	0	0
24 25	0	0		0	0	0	0	0	0	0	0	0	0	0	0	000	000	000	0	0000	0000	0	000	000	0 0
25 26 27 28 29	0	0	0	0	0	000	0	000	000	0	0	000	0	0	000		000	0	0000	1	1 0	1	000	000	0
29	0	0	0	0	••••	••••	••••	••••		••••	••••	••••	••••	••••			••••	••••	o	ĭ	1	ĭ	0	ō	
MEAN	0	0	0	0	1	0	0	0	0	0	0	٥	0	0	1	1	1	1	1	0	0	1	0	٥	0.4

PERCENTAGE OF DATA VALID - 88.4 PERCENTAGE OF DATA INVALID - 8.2

PERCENTAGE OF DATA UNAVAILABLE - 3.4

NOTES 1. " ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "." INDICATES DATA IS UNAVAILABLE
- 3. "\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DATLY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLIGN

	S	TATION		O NO	48002		TRAIL	ER/MTC	YAR	0 #9	HWY 4	7. S	CUFFV	ILLE		NON	TH -	MAR	80						
HOUR	. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
3 4	0 0	1 2 0	1 2 0	000	1 2 0 0	1 2 0 0	0	0 1 0 0	0	0	0 2 0 0	0 1 0 1 .	0 0 0 1 DATA	0 0 1 INVAI	0 0 1 1	0	0 0 1	0	0 1 0	0 0 0	0000	000	0	0 0	0 1 0
6 7 8 9	0 1	0 1 1	0 1 1 1	0 1 2 2	0 1 2 1	0	0 0 1 1	0 0 1 2	0 0 1 2	0 0 0	0 0 0 4	0 0 0 0 5	00	0 0	0 0 0 3	0 0 0 3	0 2 0 1 3	0 2 0 1 3	1 0 1 2	1 0 1 2	0 1	2 2 0 1 0	1 2 0 1 0	1 1 0	1 0 1 2
11 12 13 14 15 16 17 18 19	0100010000	000011000	00000	0100000000	0 1 0 0 0 1 0 0 1	0 2 0 0 1 0 0 1	0 2 0 0 1 0 0 0 0 0	0 2 0 0 1 0 0 0 0 1	0100100001	0 1 0 0 1 0 0 0 0 2	0 1 0 0 0 0 4	010000000	10100000	010100000	000000000000000000000000000000000000000	00001	0 0 0 0 0 0 0 1 1	0000100011	000000000000000000000000000000000000000	0000100000	00010000	0000-00000	0000-00000	0000-00000	0 1 0 0 0 0 0 1
21 22 23 24 25 26	0 0 0 0	000	0 0	0	0 0 0 0	0 0 0 0	0 0 0	00000	000000	00000	00000	00000	0000	0 1 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 1	0 1 0	1 0 1	1 0 1 0	1 0 1	0 0 0	0000	0 0	0000	00000
27 28 29 30	1 0	1 0	0	1 0	1 0	1 0	1 0	1 0	1 0	1	1 0	1 0	1	1 1 0	1	1 0	1 1 3	1	0	1 1 0	1	0	1	0	1 0
31 MEAN	0					0	0	0	c 0	0	0	0		0		0	0	0	0	0	0	0	0	ى ە	0 0.4

PERCENTAGE OF DATA VALID - 87.6

PERCENTAGE OF DATA INVALID - 12.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT + AIR RESCROES SHANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - C.O. PARTS, WILLION

	STA	TION	- ¢	NO -	48002		TRAILE	R/MTC	YARD	#9	HWY 4	7. 51	OUFFV:	LLE		MON	тн - ,	APR	80						
HOUR	t	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 2 2 0 0 0 0 1	0 2 1 0 0 0 0 1	0 2 1 0 0 0 0 1	0 2 1 0 0 0 0 0	0210000	02100001	0 0 0 0 0 0	0 1 1 0 0 0 1 0	0 1 1 0 0 0 1 0	1 0 0 0 0 1 0	0 0 1 0 0 1 1	0 0 1 1 0 0 1 1	0 0 0 1 0 0 1 1	000000	00.0000-	000000	0000000	000000-1	0 2 0 0 0 0 1 1	0 2 0 0 0 0 1 1	00000011	1 1 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 0 0 1 0	0 1 1 0 0 0 1 1
9 10	1	1	0	0	0	0	0	0	0	0	1	į	1	1	1	1	1	0	0	0	0	0	0	ō	C 1
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 1 0 1	0 0 0 0 0 1 0 1	0 0 0 0 0 1 0 1	0000000010	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100000010	0 0 0 0 0 1 0	0 1 0 0 0 0 1 0 0	0 0 0 0 0 2 1 0	0 1 0 0 0 0 1 2 1 0	0 0 0 0 1 1 0 0	0 0 0 1 1 0 0	0 0 0 0 0 1 1	0 0 0 0 0 2 1	0-0000-02-	0100000021	0100100000	0-00-000000	0000+000-0	0000000000	0000010011	000001011	000000111	00000	00000
21 22 23 24 25 26 27 28 29 30	1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 1 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0-00000000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	000000000	0000000000	000000000	000000000	00000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000100000	0000000000	0000100000	1000100000	1000100000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
MEAN	0	0	0	0	n	n	0	0	0	0	0	0	0	n	0	0	0	C	O	0	0	0	0	٥	0.3

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE

0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES ERANCH

	POL	LUTANT	- 5	ULPHU	XOIO R	IDE							ı	JN1TS	- 0.0	1 PAF	RTS/MI	LLION	í.						
	STA	TION -	C	NO 4	8002	TI	RAILE	R/MTC	YARD	#9 H	HWY 4	7. 51	OUFFV	LLE		MONT	тн - м	AY	80						
HOUR	1	2	3	4	5	6 .	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	0 0 1 0 0 0 0 0 0	000100000	0 0 1 1 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0	010100000	0 1 1 1 0 0 0 0 0 0	0 1 1 0 0 0 1 0 0 0	0 1 1 0 0 0 0 0	0 1 0 0 0 0 0	0 1 1 0 0 0 0 0	0 1 1 0 0 0 0 0 0	0 1 1 1 1 0 0 0 0 0 0	0 1 1 1 1 0 0 0 0 0 0	0 1 1 1 0 0 0 0 0 1	0110000000	0 1 1 0 0 0 0 0 0 0	0110000000	0010000000	000000000	0000-0000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	00000000	000000000	0 1 1 0 0 0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	100000000	000000000	000000000	0000000000	000000000	000000000	000000000	000000000	0000000000	0000011000	1001001000	10000000	000000000000000000000000000000000000000	00000-0-0	100000000	00000000	00000000	000000000	000000000	0000000000	000000000000000000000000000000000000000	000000000	0000000000	000000000	0000000000
21 22 23 24 25 26 27 28 29 30	000010000	0000	0000010000	00000-0000	0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0	00000	0 0 0 0 1 0 0 0 0	0000010002	000000000	00000000	00000000	0000000000	0000000000	000000001	00200001	0 0 0 0 0 0 0 1	0 0 1 0 0 1	7 0 1 0 0 0 1 0 0 1	4010000000	2 0 0 1 0 1 4 0 0 0	1 0 0 1 0 1 3 0 0 0	000-00-000	000-00000-	000000000000000000000000000000000000000
31	0	0	0	0	0	0	0	0	0	0	O	0	1	U	U	U	U	U	0	0	0	U	v	ċ	ō
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	C	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT	· s	ULPH	UR DIO	XIDE								UNITS	- 0.0	01 PAF	175 M	111:01	4						
	STA	TION -	C	NO	48002	1	RAILE	R/MTC	YARD	*9	Hay 47	. 51	OUFFL	LLE		NONT	н - ,	UN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7	00000001	000000	00000101	0 0 0 0 1 0 1	00000	0 0 0 0 0 0 0 1	0 0 0 0 0 1	0000000	000000	0000000-	000001010	0000000-0	000000000	0 0 0 0 0 0 0 0	000000000	0000-000	0000-0000	00000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0	00-000-00	00-000-00	00-600-00	000000-00	000000
10	0	0	0	0	0	0	0	0	0	0	0	1	•••	0	0	٥	C	0	0	0	0	0	o	ō	ā
11 12 13 14 15 16 17 18 19	000-000-00	0001000100	000-0-0-00	0 0 0 1 0 1 0 0	0 0 1 0 1 0 0	0001000100	0 1 1 0 0 0 1 0 0	2 3 1 0 0 1 0 0	3 2 3 0 0 0 1 0 0	0 2 2 3 1 0 0 1 0 0	2 1 0 0 1 0 0	11100-00	0 1 0 1 0 0 0	3 3 2 1 0 1 0 0 0	2 2 1 1 1 0 1 0	0 2 2 1 1 1 1 0 1 0	0 230-020-0	011010	0 1 5 0 1 0 1 0	01301010	010000	0 0 3 0 1 0 2 0 0 0	020104000	0 0 0 0 0 0 0 0 0	1 2 1 1 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 1 1 0 0 0 0	0001-00000	0 0 0 1 1 1 0 0 0 0	0 0 0 1 1 1 0 0 0 0	0 0 0 0 0	00000000	0012111000	1 1 1 0 0 0	0013220000	0014220000	2 2 0 0 0 0	2212211000	4 2 2 2 0 0 0 0 0	0 2 1 1 1 0 0 0 0 0 0 0 0	1 0 2 4 0 0 0 0 1	35300000	6 3 0 0 0 0 1	0114500000	39410000	940000	0 1 3 3 2 1 0 0 0 1	0 0 2 3 1 0 0 0 0 1	1 0 0 0 0 2	0 0 0 1 0 0 0 :	3 2 1 0 0 0 0
MEAN	0	٥	0	٥	0	a	0	ń	i	1	1	1	1	1	1	1	1	1	1	1	1	4	1	0	0.5

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

2. \*-\* INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	PO	LLUTAN	r - s	ULPHU	R DIC	XIDE							1	UNITS	٠0.	01 PA	RTS/M	ILLIO	N							
	ST	ATION	. с	NO 4	8002	T	RAILER	/MTC	YARD	#9 H	HWY 47	7. ST	OUFFV	ILLE		MON	TH ·	JUL	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN	
1 2 3 4 5 6 7 8	0 0 1 0 0	0 1 0 0 1 0 0 0	0 1 0 0 1	00101001	00-0000-00	0010000100	0 1 0 0 0 0 0	0020100001	0020100111	0 1 1 0 2 0 0 0 1 1	0 1 1 0 3 0 0 0 1 1	2000	2	1 0 1 0 2 1 1 1	000000	0000001011	1000002112	1000002112	1000003100	0001012011	0001011011	0 0 0 0 0 1 0 1 2	0 0 0 0 0 0 0 1 1	0001002011	0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
11 12 13 14 15 16 17 18 19	00001	00001001	1000001	0000001	10000	0 0 1	1 0 1 0 0 1	1 0 1 0 0 0 0 1	100001	10001	1 0 0 0 0 1		DATA	0 1 0 1 0 0 0		0 0 1	3 0 0	0 1 4 0 0 0 2	0 1 4 0 0 1	0 1 6 0 0 0	1 0 7 1 0	0 0 6 1 0 0	004	00000	2000	
21 22 23 24 25 26 27 28 29		••••			••••				•••	•••		*	DATA CATA CATA DATA DATA DATA	NVAL NVAL NVAL NVAL NVAL NVAL NVAL	0 -			•	X <b>®</b> -		-	ě	۰			
31 MEAN	0	o a	0	0	0	1 0	1 0	0	1	1	1	1	0	1	1	,	1	1	1	1	1	1	1	0	0.5	

PERCENTAGE OF DATA VALID - 59.7 PERCENTAGE OF DATA INVALID - 38.7

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEIN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT, - AIR RESORCES GRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS MILLION

	STA	TION	. с	NO 4	8002	1	RAILE	R/MTC	YARD	#9	HWY 47	. 510	OUF FV !	LLE		NON'	тн - ,	AUG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	1.3	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 6 7	1 0 1 0 0 0 1	1 1 0 0 0 0 1	1 1 0 0 0 0 0	1100000	1 0 0 0 0 0	1.000000	1 000000	11000000	1 0 0 0 0 0 0	1 1 0 0 0 0	00000	1 1 1 0 0 - 0	1 1 1 0 0 0 1 1	1 2 1 1 0 1 1	1 2 1 1 C	1 2 1 1 2 0 2 1	1111000	021	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 0 1 1 0 1	0 1 0 1	0 0 0 1 0 1	0 1 0 0 1 0 1	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	C	0	0	0	0	0	0	0	00
1 12 13 14 15 16 17 18 19	0000000000	0000000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	0 000000000	0000000000	0000000000	0000000000	0 000000000	0 3000000000	0 30 30 00 00 00	0 000000000	0 3000000000	0 000000000	000000000	0000000000	0000000000	0000000000
21 22 23 24 25 26 27 28 29	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000000000	0000000000	00000000000	00000000000	0000000.00	0000000000	00000000000	0000000000	00000000000	00000000000	0000000000	000000000
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	. :	SULPH	1UR DIO	XIDE							ı	NITS	- 0.0	1 PAR	75/MI	LLIO	N						
	STAT	ION .	С	NO	48002		TRAILE	R/MTC	YARD	#9	HWY 47	. 57	OUFFVI	LLE		MONT	r	ξP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	,,,	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000	0000000000	0000000000	00000000000	000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000	000000000	000000000	0000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000	0000000000	000000000	000000000000000000000000000000000000000	000000000	• • • • • • • • • • • • • • • • • • • •	0000000000	00:00000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	000000000	0000000000
21 22 23 24 25 26 27 28 29	0000000000	0000000000	0000000000	0000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 1 0 1	0 0 0 0 0 1	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	00000000-7	000000000000000000000000000000000000000	000000000	000000000-	0000000000	000000000	00000000000	0000000000	000000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	c)	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES ERANCH

																	2 2 2 20	1000						- 90	
	PO	LLUTAN	T - :	SULPH	UR CI	CXIDE								Unite	٠.			:1 - (3)							
	ST	ATION	. с	NO	48002		TRAIL	R/MTC	YARD	#9 H	WY 4	7. 5:	CUFFV	ILLE		NC	TH - (	CCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
DAY  1 2 3 4 5 6 7 7 8 9 10 11 12 13	00000000000 000	0000000000 0000	000000000000000	0000000000 000	000000000000000000000000000000000000000	0000000000 000	000000000000000000000000000000000000000	0000000000 000	000000000000000000000000000000000000000	0000000000 0000	000000000000000000000000000000000000000	1000000000 0000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000000 0000	0000000000 0000	0000000000000000	00000000000 0000	0000000000 0000	0000000000 0000	00000000000000000	000000000000000000000000000000000000000	0000000000 0000
14 15 16 17 18 19 20	0	0	0	0	0	0	000	0	0	0	0		DATA DATA DATA OATA	INVALI	0 -	0			0		•	0			
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	0	00000000	00000000		00000000	00000000	00000000	00000000	100000000	01000000	100000000	0	1000000000	000000000000000000000000000000000000000	00000	-000000000	10000000	100000000	100000000	100000000	100000000	000000000	000000000	00000000
31 MEAN	0	-	0	0		.n o	0	0	0	0	0	0		0	o	.0	0	0	0	0	0	٥	0	0	0.0

PERCENTAGE OF DATA VALID - 80.9 PERCENTAGE OF DATA INVALID - 19.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POL	LUTANT	. }	SULPH	UR DI	OX I DE							91	UNITS	· 0.	01 PAF	RTS/N	11110	N						
	STA	TION -	c	NO	43002		TRAIL	ER/MTC	YARD	/9	HWY 4	7. ST	OUFFV	ILLE		NON	тн - і	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5	0 0 0	000-000	000-000	0000000	00000000	00000000	00000000	000001	0 1 0 0 0 0 1	0 1 0 0 0 0 1	0 1 0 0 0 1	0 1 0 0 0 1	0 1 2 0 0 0 1	0 0 1 0 0 0 1	0 0 0 1	0 0 1 0 0 1	0010001	0010001	0 0 1 0 0 0 1	0 0 0 0 1	1 0 0 0 0	0010000	1 1 0 0 0 0 0	1010000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8 9 10	0	0	0	0	0	0	0	0	0 0 0	0	0	0	0	0	0	000	0	000	000	000	000	0 0 0	000	000	0
11 12 13 14 15 16 17 18 19 20	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.1001000	00000	1000000	10001000	0000		100000	0000000	000000	000000000000000000000000000000000000000	0000000	0000001	-0000001	00000000			0100001	0 -0100001	0100002	-0000002	.00010001	0010001	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	2 0 0 2 0 0 0 0 0 0 0 0	2 0 0 2 0 1 0 0 0 0	200200000	200010000000000000000000000000000000000	0		2011000000	0	3 0 2 1 0 0 0 0 0 0 0	2021000000	2	0	5 1 0 0 0 0 0 0	0041000000	002100000	0121000000	0111000000	0010000000	0010000000	00-0000000	0110000000	0 1 1 0 0 0 0 0 0 0 0 0 0	002000-00	0 0 0 0 0 0 1	102100000000000000000000000000000000000
MEAN	n	٥	a	٥	0	٥	0	0	0	0	0	٥	٥	0	O	0	O	٥	٥	0	0	O	O	э	0.3

PERCENTAGE OF DATA VALID - 95.3 PERCENTAGE OF DATA INVALID - 4.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIGXIDE

UNITS - 0.01 PARTS/MILLION

	SI	AO I TAT		NO.	4800	2	TRAIL	ER/MT	C YARD	#9	HWY 4	7. 5	TCUFF	VILLE		MC10	iTH -	DEC	80							
DAY	1	2	3	4	5	6	7	8	9	10	11	12	1.3	14	15	16	17	1.6	19	20	21	22	23	24	WEAN	
2	0	0	0	0	0 0	000	0 0 0	0 0 0	0	000	0	0			0 - 0	0	0	C 1	0	0	0	0	0	0	0	1
4 5 6 7 8 9	·	·		·	Ĭ	·	v		Ü	Ü	·		DATA DATA DATA DATA DATA	INVALIC INVALIC INVALIC INVALIC INVALIC												
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16	1	1	ī	1	0	0	0	0	1	- 1	1	ĭ				1	1	ò	ò	ò	ò	ó	o	ó	•	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	2	2	3	5	ĭ	2	5	4	1	
18	2	1	1	1	1	1	1	0	0	0	0	0		0	0	0	0	0	0	5	0	2	0	٥	.0	
19	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	٥	0	0	0	0	0	0	0	0	0	
21	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	٥	0	0	0	٥	0	0	0	
22	0	Ü	0	0	0	0	0	0	0	7	6	4		1	1	2	1	1	2	2	1	1	1	1	1	
24	2	2	2	2	2		2	1	1		1		0	3	3	0	0	2	2	2	2	2	ő	á		
25	ō	ō	ō	2	ō	ő	ō	1	ó	ò	0	0	ŏ	0	0	ŏ	0	0	•	·	0	0	Ö	ő	,	
26	ō	ī	ĭ	ŏ	ŏ	o	ŏ	ò	ĭ	ĭ	ŏ	ŏ	ĭ	ĭ	,	ĭ	ĭ	1	- 1		1	ĭ	ĭ	ĭ	ĭ	
26 27	1	1	1	1	1	1	1	1	1	1	1	1	•	ì	•	1	1	1	- 1	1	1	i i	,	1	•	
28	1	1	1	1	1		1	2	2	2	3	1 5 2	6	3	3	3	3	2	2	2	2	3	3	3	2	
29	3	3	3	2	2	2	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	
30	2	2	1	2	2	2	1	1	4	0	0	٥	0	0	0	٥	0	C	0	0	0	0	0	0	1	
31	0	0	0	0	0	1	0	0	0	0	0	0	3	0	U	0	Ű	Ü	0	0	0	0	0	ε	5	
MEAN	1	1	1	1		1.	1	•	4	ť	1	,	1	1	1	3	1	1	,	1	0	1	,	1	0.7	

PERCENTAGE OF DATA VALID - 67.2 PERCENTAGE OF DATA INVALID - 32.8 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - 41R RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DICKIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 45002 TRAILER/MTC YARD #9 HWY 47, STCUFFVILLE

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	WAXIMUM READING
JAN	10	0.2	1	5
FEB	24	0.4	2	4
MAR	26	0.4	2	5
APR	30	0.3	,	3
MAY	31	0.2	1	7
JUN	30	0.5	3	9
JUL	18	0.5	2	7
AUG	31	0.2	,	2
SEP	30	0.0	3	3
OCT	24	0.0	0	1
NOV	28	0.3	2	5
DEC	20	0.7	4	8
YEAR	302	0.3	4	9

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLITIANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

OLLOTANT .	30		Q~ L	J. O.																						
STATION -	С	NO	480	002		TRA	ILE	R/M	TC 1	ARO	49	HWY	47	. 51	OUF	rv:	LLE									
MONTH	00	TO	05	06	TO	10	11	TO	15	16	to	20	21	тэ	25	26	70	39	40	to	4.9	50	scv	Eq	TOTAL	
JAN			264			0			٥			٥			٥			٥			0			0	264	
FEB			615			0			0			٥			0			0			3			0	615	
MAR			652			٥			٥			o			٥			0			0			٥	652	
APR			717			٥			٥			0			0			0			C			C	717	
MAY			742			1			٥			0			0			0			0			0	743	
JUN			715			3			0		Ų,	0			0			0			0			0	718	R
JUL			441			3			٥			0			0			٥			0			٥	444	Ü.
AUG			741			0			0			٥			٥			0			С			0	741	
AUG			/																					U	/19	
SEP			719			0			0			0			0			U			U					
OCT			602			0			0			0			٥			0			0			0	602	Ĺ
NOV			686			0			0			0			0			0			0			0	686	ì
DEC			493			7			0			0			0			0			0			0	500	i
YEAR			7387			14			٥			0			0			0			0			0	7401	0

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA CONCENTRATIONS DISTRIBUTION. 70 90 AR I TH ME AN FREQUENCY 50 PERCENT VALIO 0.3 0.0 1.0 1 . B 0.0 0.7 0.0 0.0 84.3

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - JAN MCDONALD GON RIDEAU/WURTEMBURG ST.OTTAWA SE NO 51001 24 MEAN HOUR DAY ~000000000 2 3 4 5 6 7 8 9 10 00--0000000 -0000000 -0000000 ò 00000--0.0-000--12 13 14 15 16 17 18 19 01000--0 0 20 10 1 0 0 0 1 0-00 00000-0000-0-00-22 23 24 25 26 27 28 29 30 3 1 0 1 0 3 a ø n 0.6 MEAN

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

PERCENTAGE OF DATA VALID - 97.4

PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE -

<sup>...</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OF FARTS MILLION

STA	TION	. SE	NO 5	1001	м	CDONA	LD GOM	RI	DEAU/	WURT	EMBURG	ST.O	TTAWA		1.0V	TH ·	FEB	80						
1	2	3	4	5	6	7	9	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
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PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.3 PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUT	ANT -	SULPH	IUR DI	OXIDE								UNITS	- 0.	01 PA	RTS/M	11110	N						
	ST	ATIO	N -	SE NO	51001		MCDON	ALD C	ON R	DEAU	WURTE	MBURG	S ST.C	AWAT TO		NON	TH 1	V A R	80						
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31 Mean	0	1	. 1	0	1	1	1	1	1 2	0	1	0	0	1	0	0	0	c	0	0	0	0	1	Ü	0.7

PERCENTAGE OF DATA VALID - 88.2 PERCENTAGE OF DATA INVALID - 11.8 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 FARTS MILLION

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	\$1	ATION		SE NO	5100	1	MCDON	ALD GD	N R	DEAU	WURT	EMBUAG	\$1.0	AWAT		r.on1	тн - 1	APR	80							
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PERCENTAGE OF DATA VALID - 95.3 . PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE	UNITS - O.C1 PARTS/MILLION
STATION . SE NO 51001 MCDONALD GDN RIDEAU/WURTEMBURG ST.	OTTAWA MONTH - MAY 80
HOUR 1 2 3 4 5 6 7 8 9 10 11 12 13 DAY	1 14 15 16 17 18 19 20 21 22 23 24 MEAN
1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0	
11	
21 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

																			449						
	5	TATIO	N .	SE NO	5100	1	MCDO	NALD	GDN R	IDEAU	/WURT	EMBUR	G ST.	METIC	Δ	Vor	TH .	LUN	80						
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PERCENTAGE OF DATA VALID - 90.4 PERCENTAGE OF DATA INVALID - 8.5

PERCENTAGE OF DATA UNAVAILABLE - 1.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- s	ULPHU	OIQ R	XIDE								UNITS	- o.	01 PA	RTS/M)	ILLION	ų.						
	STAT	ION -	SE	NO 5	1001	N	CDONA	LD GE	N RIC	EAU/	WURT	EMBURG	ST.O	TAWA		MON	тн - ,	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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31 MEAN	0	0	0	0	0	0	0	0	0	1	0	0	6	0	ı C	0	0	o o	o c	0	0	0	0	0	0 0.1

PERCENTAGE OF DATA VALID - 95 8

PERCENTAGE OF DATA INVALID . 1.1

PERCENTAGE OF DATA UNAVAILABLE - 3.1

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES SRANCH

POLLUTANT - SULPHUR DIOXIDE

	STAT	ION -	SE	NO 51	1001	MC	DONAL	D GON	RID	EAU/W	URTEM	BURG	ST.C	AMATT		MONT	h · 0	ÇT	80		•				
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
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31 MEAN	1	0	0	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	,	0.6

PERCENTAGE OF DATA VALID - 48.1 PERCENTAGE OF DATA INVALID - 51.7 PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	PO	LLUTA	NT -	SULPH	HUR DI	OXIDE								UNITS	- 0.	01 PA	RTS/	ILL!O	N						
	ST	ATION	. s	E NO	51001	Í	MCDO	ALD C	ON R	DEAU	WURTE	MBUPG	ST.C	TAWA	¥.	.∵ON	ith -	VCA	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	0000000	00000000	00000000	0000000	0000000	0000000	00000	0000100	000001000		0 0 0 0 1 0	000000000	00000000	00000000	000000	0000000	000000000	000000000	000000000	000000000	00000000	0000000	0 0 0 0 0 0	0 0 0 0 0 0	0000000
10	0	000	0	0	0	000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17	000000000000000000000000000000000000000	00000001	00000011	0 0 0 0 0 1	0 0 0 0 0 0 1	0000000	0000001	000001	0 0 0 0 1 1	0000	0 0 0 0 1	0 0 0 0 0 0 1	0 0 0 0 0 1 1 0	000000	0 0 0 0 1 1	0 0 0 0 0 1 1	0 0 0 0 0 1 1	00000	00000	0000011	00000100	0 0 0 0 0 1 0	00000	00000100	0 0 0 0 1
19 20	0	Ö	0	0	0	ŏ	••••		o	0	0	0	ŏ	ō	0	0	Ü	0	0	ŏ	ŏ	0	0	ŏ	0
21 22 23 24 25 26	0 0 0 0	0	0 0 0 0	0 0 0 0	0	0		000000			0 0 1 0	0	0 0	000	0 0			 3 					0 1 0	0 1 0	
27 28 29 30	000	0	0 0 0	0000	0	000	0	0	0	0	1 0 1	0	0	0 0 0	0 0	0000	0 0 1 0	0000	000	0000	000	0000	0 0 1 0	0000	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	O	0	0	0	U	·	U-	0	0	0	U	Ų	U	U. 1

PERCENTAGE OF DATA VALID - 93.6 PERCENTAGE OF DATA INVALID - 6.0

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O O1 PARTS MILLION

	STA	FION	· s	E NO	51001		MC DON	ALD GDA	RI	DEAU/V	FURTER	BURG	sr.01	TAWA	9	/'CN	ith ·	AUG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	1.3	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
	٥	٥	0	٥	0	ð	٥	0	0	0	0	S	U	0	٥	ā.	4	٥	0	0	0	o	0	0	0
2	ō	ŏ	ō	ō	Š	0		ō	0	0	3	J	O.	0	J	0	U	3	O	0	0	O	٥	0	o
3	0	ō	ŏ	ō	0	0	0	0	٥	0	·	3	J	0	0	0	, C	52	0	0	0	0	0	0	0
4	0	ō	0	ō	0	3	0	٥	0	0	0	3	0	0	1	0	0	٥	0	0	0	O	0	0	0
5	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	O	o	٥	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	- 0	o		0	0	0	0	0	0	٥	0	o	0	0	o	0	٥	0
7	0	0	ò	0	0	0	0	0	0	1	0	0	1	O	0	0	0	38	0	٥	O	o	٥	٥	0
8	0	0	0	0	0	0	0	0	0	0	J	Ü	0	0	0	13	J	3	o	٥	0	0	0	0	č
9		0	0	0	0	٥	0	0	0	0	o	٥	O	O	0	.)	٥	3	0	٥	0	0	J	0	0
10	0	0	0	0	0	o	0	0	0	1	2	1	0	0	o	O	٥	0	0	٥	0	0	o	0	0
11	0	0	0	0	0	0	0	0	1	1	0	٥	o	0	0	0	****	0	0	0	0	0	٥	5	5
12	0	0	0	0	0	0	0	0	0		0	0	0	o	0	٥	٥	0	0	0	0	0	0	٥	0
13	0	0	0	0	0	0	0	٥	0	0	0		٥	0	1	_ 1	1.	•	1	1	1	2		1	ŏ
14 15 16 17	1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	ŏ
15	0	0	0	0		0	0	0	0	0	0	0	0	0	0	٥	ن	C	0	0	٥	0	0	0	ŏ
16	0	0	0	0	0	0	0	0	0	0	C	٥	0	0	0	0	0	0	o	0	٥	0		Ö	Ÿ
17		0	0	0	0	0	0	0	0	0	0	0	3	1	2	2	2	2	2	2	2	2	1	1	
18	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	č
19	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	1	3	1	1	0	0	0	0	0	0
18 19 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	U	U
21	0	0		• • • •	0	0	0	0	0	• • • •	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	٥	0	0	C	٥	0	0	ç	0	0	0	0	0	0	0	Ö
23 24 25 26	0	0	0	0	0	0000	٥	0	0	0	0	0	0	0	0	0	೦	0	0	0	0	0	0	Ö	ő
24	0	٥	0	0	0		0	0	0	0	0	0	0	0	0	0	G	0	0	0	0	0	Ö	ő	ŏ
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0	ŏ
26	0	0	0	0	0	0	0		0	0	0	٥	0	0	0	0	C	0	000	0	0	00			ŏ
27	0	0	0	0	0	0	0	0			٥	٥	٥	0	0	0	0	0	0	0	0	0	0	0	ő
28	0	0	0	0	0	0	0	1	2	0	0	0	٥		0	0	٥	0	0	0	0	0	0		
29	0	D	0	0	0	0	0	0	2	1	0	0	0	0	0	0	c	0	0	0	0	0	0	0	0
27 28 29 30	0	0	9	0	n	C	0	٥	0	O	0	0	0	٥	O		0	0	0	0	0	0	U	U	U
31	0	0	0	0	0	٥	0	0	0	0	0	٥	0	0	٥	0	٥	0	0	0	0	0	0	0	0
MEAN	0	0	٥	0	٥	٥	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 98.4 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	UTANT	- St	JLPHL	R DIOX	IDE								UNITS -	0.0	I PAR	TS/MI	LLION	4						
	STAT	ION -	SE	NO S	1001	м	CDONAL	D GDN	RI	DEAU/	WURTE	EK8URG	ST.C	AWATT		MONT	н - ş	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 10	0000000110	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000 0000	000000010	000000000000000000000000000000000000000	0000000010 0000	000000000000	0000000110 0000	0000000130 0000	000000000000000000000000000000000000000	00000			00000000000000000000000000000000000000		0000000100 0000	000000000000000000000000000000000000000	0000000-00 0000	0000000100 0000	000.001100 0000	0000001100 0000	0000001100 0000	0000011000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
16 17 18 19 20												•	DATA DATA DATA	INVALIC INVALIC INVALIC INVALIC	) . ) .										
21 22 23 24 25 26 27 28 29 30													ATAC DATA DATA DATA DATA DATA DATA	INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC											*
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 45.8 PERCENTAGE OF DATA INVALID - 54.0

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCREES BRANCH

UNITS - C OF PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MCDONALD GON RIDEAU/WURTEUBURG ST.OTTAWA VONTH - DEC 80 STATION - SE NO 51001 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN 6 7 8 HOUR 3 4 5 0000000000 - 00000000 -............ 0000000000 1 2 3 4 5 6 7 8 9 10 00000000000 0000000000 0000000000 000031 00000-0000-000 0000-000 0000 ō 3 2 3 2 1 1 0 0 1 ... 11 12 13 14 15 16 17 18 19 0 2 4 0 2 4 0331210212 0321110302 2 2310011002 2 1100002101 1000000001 0 0122310010 0 0 2 3 1 2 1 21010 0 0 0 1 2 0 0 1 0 0 0 0 2 1 2 2 2 3 1 1 2 2 3 4 0 6 339000004 0340000430 21 22 23 24 25 26 27 28 29 30 3 2 2 0 3332020350 2323010270 6225032150 5424022260 342302-290 3 0 0212300 0 ٥ 1 1 1 0 ٥ 0 31 1.1 1 1 1 MEAN 1

PERCENTAGE OF DATA VALID - 96.2

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. . INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION -	SE NO 51001 MCDONALD GE	N RIDEAU/WURTEMBURG ST.OT	TAWA	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAX:MUM	MAXIMUM READING
MAL	31	0.6	2	8
FEB	29	0.7	2	7
MAR	27	0.7	3	8
APR	29	0.1	1	3
MAY	31	0.2	ı.	2
JUN	30	0.1	1	3
JUL	30	0.1		â
AUG	31	0.1	Ť	2
SEP	14	0.1	1	3
OCT	15	0.6	1	3
NOV	26	0.1	ť	4
DEC	31	3.1	4	9
YEAR	326	0.4	4	9

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1960

POLLUTANT - SULPHUR DIGXIDE

UNITS - 0.01 PARTS MILLION

TATION -	SE	NO	510	01		MCD	ONA	LD (	GON	RID	EAU,	/WUR	TEM	BURG	s s T	.011	7.44									
MONTH	00	то	05	06	то	10	1.5	to	15	16	10	20	21	CT	25	26	TO	39	40	ťο	49	50	20 €	R	TOTAL	
JAN			722			3		*	0			0			٥			0			٥			0	725	
FEB			675			3			٥			0			٥			٥			٥			0	678	
MAR			651			5			c			0			0			0			0			0	656	
APR			686			0			¢			0			٥			٥			٥			0	686	
MAY			726			0			ć			0			٥			0			٥			٥	726	
JUN			651			٥			Ç.			0			٥			0			0			0	651	
JUL			710			3			0			0			0			٥			0			0	713	
AUG			732			0			0			0			0			0			o			0	732	
SEP			330			0			0			0			0			٥			0			0	330	
oct			358			0			0			٥			٥			0			0			0	358	
NOV			674			0			0			0			0			٥			0			0	674	
DEC			704			12			0			0			٥			٥			0			0	716	
YEAR			619			26			0			0			О			0			c			0	7645	
						-																				

FREQUENCY DISTRIBUTION BY PERCENTILES CONCENTRATIONS PERCENT OF DATA VALID MIN 10 30 FREQUENCY DISTRIBUTION. PERCENT VALID MIN 10 30 50 70 90 95 CB 99 MAX MEAN

87.0 0 0.0 0.0 0.0 0.0 0.8 1.5 2.4 3.3 9 0.4

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCURCES BRANCH

	POL	LUTANI	· s	ULPHU	R DIO	XIDE								L	NITS	· c.	31 P	1815	/ N 1	LL.01							
	STA	TION	SE	NO 5	1037	C	ONFED	ERATE	PK :	NFO	CTR 8	LDG	HAW	KCSE	URY		::o	NTH	- A1	ΔY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	2	13	14	15	16	1	7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9								œ:					CATA CATA CATA CATA CATA CATA	UNA UNA UNA UNA UNA UNA	VALLA VALLA VALLA VALLA VALLA VALLA VALLA VALLA	.8.E .8.E .8.E .8.E .8.E .8.E						3					
11 12 13 14 15 16 17 18 19	. 0 0 2 0 0 0	0000	0 0 1 0 0 0	. 000000	. 000000	. 000000	0 1 1 0 0 0	041002	0 3 1 0 0 2	0 3 1 0	1 1 0 0 0	* 1	ATEC	UNA	1 0 0 0	BLE				020000	0100000	0 1 0 0 0 0 0	0 1 0 0 0 0	0000000	0050000	0 •	0 1 0 0
21 22 23 24 25 26 27 28 29 30	00000	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 3 1 0 0 0 0 1 1 0 0	5410000-00	4 4 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	3 2 1 0 0 0	•••	3	2	1 0 0 0 0 0 0	3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	500000000000000000000000000000000000000		3000000000	200000000000000000000000000000000000000	0000000	0001000000	0000000000	0000000000	0000000000	000-000000	1 0 0 0 0 0 0 0
31	0	0	0	0	0	0	0	0	0	0	0		ပ	ð	U	U		,	v	J	0	0	O	ŭ	ĉ	3	3
MEAN	0	0	1	٥	1	1	1	1	1	*	į		i	0	O	0	1	1	0	O	0	0	0	٥	0	0	0.5

PERCENTAGE OF DATA VALID - 55.0

PERCENTAGE OF DATA INVALID . 1.3

PERCENTAGE OF DATA UNAVAILABLE - 43.7

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH .

				-									1	UNITS		31 DAS	TS . M		u						
	POL	LUTANT	- SI	ULPHI	UR DIC	XIDE							3	OWIIZ	. 0.,	J: "A!	113/6/		•						
	STA	TION -	SE	NO !	51037		ONFE	DERATE	PK	INFO	CTR B	LDG.H	AWNES	BURY		VON	н	IUN	80						
HOUR	ī	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	16	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7	0000000000	000000000	000000000	0000000000	000000070	000000000000000000000000000000000000000	0 0 0 0 0 6 0 0	1010050052	1 1 2 0 0 3 1 0 2 3	1 1 0 0 2 1 0 4 4	0001	5 1 0 0 1 1 0 1 1	6 1 0 0 0 0 0 5 2	2 1 0 0 0 0 0 0	: 0 0 0 0 0 0 0 1 5	0 0 0 0 0 0 0 0	00-0000001	0010000010	0 0 0 0 0 0 1 1	.00000000000	0000-00000	000010000	0000000004	00000000	10000100332
11 12 13 14 15 16 17 18 19	1021000200	2 0 11 12 0 0 1 15	1 0 7 1 0 0 0 15 0 0	6080000200	0 2 0 0 0 0 1 0 0	6 5 0 0 9 1 0 0	2 5 9 6 0 0 11 2	1 8 4 4 0 0 11 7	2 5 3 4 0 0 4 6 1 0	: 3 4 0 0 2 4	3 1 4 0 0 1 0 1 0	400-000	3 2 1 3 0 0 1 0 0 0	305003000	: 304004000	303000000000000000000000000000000000000	0 2 0 0 0 0	10000000	000000000000000000000000000000000000000	0000000000	000-00000	10000000	2000000	000000000000000000000000000000000000000	330002200
21 22 23 24 25 26 27 28 29	0000000000	000000000000000000000000000000000000000	0000000800	0000000400	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 2 0 0	i	6	34 00 100	600000000000000000000000000000000000000	0 3 3 1 4 1 0 0 0 0 0	3 4 3 0 0 0 0	2 1 0 0 0	2 1 2 4 0 0	0 2 1 9 3 3 0	0 3 1 13 18 5 0	0 1 1 4 0 3 0 0	0 8 0 1 0 1	0 2 0 0 0 0 0 0 0	0102000-00	1000200	0 1 3 0 1 0 29 0	0 0 4 0 0 0 7 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 3 2 1 0 3 0 5
						•	-	2	-			1	*	*	*	2		-1	1	0	1	1	1	0	1.1

PERCENTAGE OF CATA VALID - 98.6

PERCENTAGE OF DATA INVALID - 1.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. \$	ULPH	UR DIG	XIDE							·	INITS	- 0.0	31 PAF	RTS/MI	LLIO	N						
	STA	TION -	SE	NO	51037		CONFE	DERATE	PK	INFO	CTR B	LOG. H	AWKESE	BURY		MON	тн	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0001005400	00010033500	0001009300	000005300	000009100	1 0 11 8 0 6 0	0 9 14 1 0 3		0065000211	22000202	0 6 1 1 0 0 0 1 1 0 5	0 5 1 1 0 0 2 1 0 2	0 5 1 0 0 2 10 1	0 1 2 0 0 0 6 5 0 0	0 0 7 0 0 0 3 2 0 0	0040005-00	0050004000	002005001	0 0 0 0 0 0 0 0	0000000000	0040030000	0 0 4 0 0 0 0 0 1	0 0 0 0 0 0 1	000000000000000000000000000000000000000	0 1 3 2 0 2 5 2 0
11 12 13 14 15 16 17 18 19	0000000000	0000010000	00000-0000	0 0 0 0 0 0	3 7 0 0 0	2045000610		5000102	0000000	0001000002	6002100021	6004100-12	1003200202	0 0 0 2 1 1 0 0 0 1	0 0 1 1 1 0 0	0 0 0 0 1 0 2 0 0	0 0 0 0 1 0 0 1 0	0000010010	0 0 1 0 1 1 0	0 0 0 1 1 0 0 1 1 0	3 1 0 0 0 0	001210000	0002100000	000000000000000000000000000000000000000	1 2 0 0 0 1 0 1
21 22 23 24 25 26 27 28 29 30	0000000000	0000000000	0000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000400000		0002200001	0010300000	003140000	0 0 1 0 1	200105	00000000	1000401003	1 6 0 0 0 0 0 2	1 0 0 4 4 0 0 1	10004	00000000	0001000000	0001100001	000000000	0000000	0 0 0 0 0 0 1 0	000000000	0001
31													DATA	INVAL	1D -										
MEAN	0	3	0	0	1.	2	3	1			1	1	1	1	1	1	1	1	0	0	1	0	2	2	0.8

PERCENTAGE OF DATA VALID - 92.1

PERCENTAGE OF DATA INVALID - 7.8

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT . SULPHUR DIGXIDE

UNITS . 0.01 PARTS, MILLION

	ST	MOITA		SE NO	51037	,	CONFE	DERA	TE PK	INFO	ÇTR i	BLDG.	-ANKS	BURY		YON	тн -	ΔLG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5				••••	••••	••••	••••			••••	••••	*	DATA DATA DATA	NVALI NVALI NVALI NVALI NVALI	10 - 10 -	ı	2	,	,	,	0	0	0	0	
A	0	0	0	0	0	0	1	1		1	1	0	0	0	ō	0	1	0	0	0	ō	0	0	0	0
9	ō	ō	ŏ		o	1	1	- 1		0	0	ō	C	0	0	0	0		0	ō		0	0	0	0
10	ŏ	ŏ	o		ō	1	2	1	••••	3	2	1	1	1	1	2	1	3	o	1	2	o	0	0	1
11	0	0	0	0	0	0	0	0		0	0	0	0	ó	0	0	1 5	1 3	1	1	o ū	0	0	3	0
13	0	٥	0	0	0	0	0	0		0	0	0	0	0	0	0	1	2	1	1	1	0	0	ő	o
14	0		0	0	0	0	0	0		0	0	0	00	0	0	0	0	0	0	0	0	0	1	8	·
15	0	0	0	0		0	2	0		0	٥		0	0		0	ŏ	٥	0	0		0	ò	Ö	ò
16	10.50	1	1	0	0		0	0		0	0	0	0		0	õ	Ö	٥		0	0	0	0	ŏ	ő
18	0	0	0	0	ő	0	ő	o		ŏ	õ	0	ŏ	0	0	0	Ö	3	0	0	Ö	ő	3	ĭ	ŏ
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23	0	0	0	0	0	0	26	1		2	1	2	1	1	1	2	5	3	0	0	2	0	0	0	3
24	4	1	2		0	1	3	0		0	0	0	0	0	0	C	٥	3	0	0	1	1	1	2	
25	3	1	0	0	0	٥	2	1		3	2	3	1	c	٥	C	ò	1	1	1	2	ò	9	ő	o
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- 31	1	1	0	0	1	1	1	1	0	••••	0	٥	0	o	0	٥	5	J	0	0	٥	0	0	0	0
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PERCENTAGE OF DATA VALID - 75.9 PERCENTAGE OF DATA INVALID - 24.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "." INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUT	ANT -	SULP	HUR D	OXIDE								UNITS	. 0	01 PA	RTS/M	11110	N							
	ST	TATIO	N -	SE NO	5103	7	CONFE	DERAT	E PK	INFO	CTR E	BLDG. H	AWKES	SBURY		N:ON	тн -	SEP	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
3	0	0		0	0	0	0	0	0	0	0	. C4	TA UN	O AVAII AVAII			0	٥	0	0	٥	0		••••	0	
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10	0	0		1	0	0	4	4	1	. 1		,	30	1	3	-	3	4	2	5	3	- 2	U	U	- 2	
11	1	7				2	1	4	••••	1	6	6	8	9	4	7	0	0	0	0	0	0	0	0	3	
12	0	C					2	0		O	С	G	3	ε	J	- 5	0	3	0	0	8	- 3	3		3	
13	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0				0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0		0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	Č		0	0	0	0		0	0	0	0	0	0	3	0	0	0	a	0	0	0	٥	0	
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19	ŏ	ő				ŏ	ŏ	õ		o	ō	ĭ	0	•	o	0	ō	ō	ŏ	ŏ	ŏ	0	0	0	0	
20	ŏ	ŏ				ő	0	ő	0	ő	0	ò	o	Ċ	õ	ŏ	0	õ	õ	ĭ	ž	0	0	ō	0	
	U			u u		U	_	J										- 5			-	177	-	-		
21	0	0				0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0		****	****										••••							• • • •	• • • •	• • • •		
23				****			****						• • • •	****	0	0	Ü	J	٥	0	0	0	0	0		
24	0	0		0		0	0	0		0	0	0	0	0	0	0	0	Ü	0	0	0	0	O	C	0	
25	0	0		0	0	0	0	0		0	0	9	1	0	0	0	C	0	0	0	0	0	0	0	0	
26	0	0		0	0	0	0	0	0	0	4	8	3	7	6	9	1	2	0	0	0	0	1	0	2	
27	ĭ	ō				0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	ò	õ				0	1	,	- 1	ō	0	ō	0	0	ō	0	U	C	0	1	0	0	0	0	0	
29	o	ŏ				Ö	0	1		1	2	2	o	ō	ō	0	č	0	ō	0	ō	0	0	0	0	
30	ŏ	ŏ				0	o	ò	0	o	ō	ō	ā	õ	ō	0	ō	o	ā	õ	ō	0	0	C	0	
30	0								0						3	-		-	-	,	-	-	-		-	
MEAN	0	0		0	0	0	1	1	0	0	. 1	į	1	1	1	3	0	С	0	0	0	0	O	G	0.4	

PERCENTAGE OF DATA VALID - 80.7 PERCENTAGE OF DATA INVALID - 7.6

PERCENTAGE OF DATA UNAVAILABLE - 11.7

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT	- S	JLPH	UR 310	SSIKC		98		5			5	275	• • •			1110	4						
- 2	STA	TICN -	SE	NO	51037	9	ONFED	ERATE	PK	INFO	CTR 8	LDG , HA	wnES	BURY		MON	тн - с	CT	60						12
HOUR	1	2	3	4	. 5	6	7	8	9	10	1,1	12	13	14	15	16	17	18	19	20	2.1	22.	23	24 ME	AN
1 2 3 4 5 6 7 8 9	000000	0000000	0 0 0 0 0 0	0000000	. 00000	000000	00000	0000	0	00000.	000000	- DAT	A U.	0 0 0 0 0 0 0 0 0 0 0 0 0 0	BLE .	•	00000	000000.	000000	000000	000000	000000.	000000	0	0 0 0
11 12 13 14 15 16 17 18 19 20	0 0 0 0 1 2	. 0 0 0 0 0 1	1 0 0 0 1	30001	50000	200020	900020	0 .	28	8000	0 1 4 1	- DAT	A UNA	0 2 2 0 0 2 4 0 0	BLE		0 1 2 0 0 11 6	0 1 0 0 6 3	0 1 3 0 0	2 0 2 0 1 0 10	0 0 3 0 1	0020100	0010100	1	4 1 0 1 3 2
21 22 23 24 25 26 27 28 29 30	4 0 2 1 0 0 0 1 0 1	103100000	0030000013	1020000044	70000	0 0 0 0 0 1 1	0 3 7 0 0 1 1 0 1 5	51	48	1 0 0 1 8 3 0 0 3	10000	00001100001	1000062021	0 0 0 1 0 4 0 1 5 0	0001022160	0 0 0 1 1 1 1 0	0001012120	0001014160	000000190	0 0 0 0 0 3 1 0	009000280	0 0 6 0 0 1 1 1 1 0	00031021	0 1 2 0 0 0 1 0 3 0	0 0 2 1 1 3 1
31												. 0AT	A UN	AVAIL	816	•									
MEAN	Ĩ	٥	0	1	1	1	•	4	10	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1.2

PERCENTAGE OF DATA VALID - 71.6 PERCENTAGE OF DATA INVALIO - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 26.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. " INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

YEAR

UNITS - 0.01 PARTS/MILLION

STATION .	SE NO 51037	CONFEDERATE PK INFO CT	R BLOG. HANKESBURY			
MONTH	NO 05	DAYS AVERAG	E CONCENT 24-H	GUR MAXIMUM	MAXIMU	M READING
JAN			DATA UNAVAILABLE			
FEB			DATA UNAVAILABLE			
MAR			DATA UNAVAILABLE			
APR			DATA UNAVAILABLE			
MAY	4	7	0.5	2		22
JUN	3	10	11	3	•	29
JUL	4	10	0.8	5		29
AUG	:	14	0.4	3		26
SEP	•	14	0.4	3		9
OCT		12	1.2	5		51

#### MONTHLY GROUP FREQUENCY CISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIDXIDE

UNITS - 0.01 PARTS/NIGGION

STATION - SE NO 51037 CONFEDERATE PK INFO CTR BLDG.HA.KESEURY

MONTH 00 FO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL

JAN		DATA UNAVAIL	ABLE						
FEB		DATA UNAVAIL	ABLE						
MAR		DATA UNAVAIL	ABLE					*	
APR		DATA UNAVAIL	ABLE						
MAY	405	1	1	o	2	0	o	0	409
JUN	672	24	11	2	0	1	o	0	710
JUL	662	17	3	1	1	4	0	0	685
AUG	559	4	1	0	0	1	0	0	565
SEP	570	3.1	0	0	0	0	0	0	581
OC T	502	24	3	1	0	1	1.	1	533
YEAR	3370	81	19	4	2	4	1	1	3483

FREQUENCY DISTRIBUTION BY PERCENTILES

ENCT	PERCENT	TON DI	PERCENTILES		3	CONCEN	TRATIONS					
	OF DATA				FREQUENCY							ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	78 9	0	0.0	0.0	0.0	0.0	1.7	3.6	6.8	9.5	51	0.8

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES SHANCH

	POI	LUTAN	T - !	SULPH	UR DIC	MIDE								UNITS	- o.	O: PA	RT5, M	LLICE	N						
£.	STA	TION	. 51	NO.	51038	(	SEN HO	SPITAL	342	MCG	ILL.H	AWKSBI	JRY			MON	TH - 1	VOV	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4												- DA	A UN	AVAIL AVAIL AVAIL	ABLE										
5		*	•			8	•		•	~			•	3	5		33	1	0	0	0	0	0	٥	
6	۰	0	0	0	0	0	0	0	1	1	3	٥	0	0	0	٥	O	1200	0080	0 0 4	0	0	0	٥	0
7	0	٥	0	6	0	20	0	26 2	0	1	4	2	1	1	٥	a	٥	3	0	0	0	6	0	0	0
8	0	٥	3			20	19	26	12	9	20	13,	8	6	0	4	4	12	8	4	6	6		0	8
9	0	0	0	1	1	2	3	2	3		2	2	2	1	1	0	0	e		0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	1	0	0	٥	0	0	G	0	0	0	0	1	4	4	18	1
11 12 13	15 14 0	8 13 0	11 15 0	1000	5 24 0 0	10 22 0	18	18 5 0	11 2 0	13	15 7 0	16 10 0 7	10 25 0 25	12 6 0	9 3 0 22	24 2 0 5	11 4 0	13 0 1	7 0 1 0	15 0 1 0	0 1	9 0 1	15 2 1	13	13
15	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	ŏ	8	2	1 2	;	-0	1	ō	õ	0	1	4	21	12	ŏ	o	ŏ	5
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17	0	ă	ŏ	ŏ	ō	ő	ō	0	ō	ò	ò	ō	a	ō	ò	ā	ī	ė	0	ŏ	ĭ	ī	1	1	0
18	ŏ	ĭ	1	ŏ	ŏ	ŏ	ŏ	ŏ	ñ	ō	• • • •			7	7	10	7	8	5	6	6	15	•	8	4
19	33	1	1	ĭ	- 7	ő	o	0		ō	0	0	0	o	Ó	1	1	ĭ	- 1	ō	0	0	0	0	2
20	ō	1	1	1	1	ī	1	1	1	1	1	ō	1	ō	ō	0	0	0	0	ō	1	3	1	1	1
21	0	0	1	1	1	1	1	0		1	1	0	0	1	T.	2	,	1	0	0	0	0	1	0	1
22	1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	o	0	0	0	0	0	0	0
23	0	0	0	0	٥	0	1	1		4	3	5	3	2	1	1	0	1	1	1	1	1	1	1	1
24	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	2	1
25	2	1	0	0	0	0	0		••	1	5	4	14	14	4	1	4	5	19	22	19	21	5	8	6
26	5	1	0	0		0	0	0		0	0	0	0	0	1	0	0	0	0	1	0	0	1	٥	c
22 23 24 25 26 27 28	1	1	1	1	1	1	1	1	1	2	1	0	2	1	1	1	1	1	1	1	1	••••	• • • •		1
28	****	1	1	1	0	0	0	0	0	*	1	0	0	1	1	1	1	1	0	0	0	0	0	1	0
39	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	,	1	1	6	1	1	1	1	1	1	٥	1	C	0	0	1	1	1	٥	1
MEAN	3	1	1	1	2	3	3	3	3	3	4	3	4	3	2	2	3	2	2	3	2	2	1	2	2.5

PERCENTAGE OF DATA VALID - 82.8

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 15.6

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

	51/	TION	· s	E NO	51038		GEN H	OSPI	TAL 34	42 MC	GILL.	HAWKSB	URY			MON	тн -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	1	1	1	1	1	1	1	1	1	•	1	î	1	1	1	1	O	0	0	5	2	4	3	1	1
2	1	1	1	1	1	3	4	0	0	0	1	. 2		1	1	0	0	0	0	0	0	0	0	0	1
3	ò	0	ò	0	4	2	0	ī	24	8	30 2 0	17	20	12	5	2	3	3	1	21	2	2	2	11	7
4	11	14	13	15	16	3	8	7		15	30	0	16	7	7	4	9	10	15	9	23	13	9	40	13
5		3	2	1	1	16	2	7	7	8	2	0	12	10	10	12	17	6	1	0	1	2	. 1	1	5
6	6 0 4	7	2	2	1	1	2	0	7	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	1
7	ō	٥	ō	0	1		0	2	4	7	3	4	2	2	1	1	1	0	1	1	1	1.	0	4	2
8	4	3	3	2	2	2	1	1	0	1	1	2	1	1	1	1	0	0	0	0	0	0		0	,
9	21	17	2	1	1	6	6	7	10				4	8	4	1	0	0	1	0	0	0	0	0	4
10	0	0	ō	0	0	0	0	1	••••	1	0	1	٥	0	0	٥	0	,	1	1	10	3	4	10	•
11	1	0	2		0	0	0	0	0	1	-1	0	0	0	0	0	2	2	10	2	1	0	0	1	1
12	0	0	0	0	0	0	1	1		1	:1	1	1	2	2	2	3	3	2	1	2	1		1	1
13	0	0	0	1	0	0	0	1		19	10	10	9	1	2	2	4	1	22	1	0	0	1	1	4
1.4	0	1	1	1	1	1	1	1	1	1	1	٥	5	5	3	2	4	3	ū	4	4	2	3	3	•
15	0	0	0	0	0	1	1	1	••••	1	1	1	1	1	1	2	3	2	2	2	1		1	1	1
16	1	1	1	1	1	0	0	0		0	1	1	1	0	٥	0	0	0	1	1	1	1	1		
17	1	1	18	32	1	0	0	0		0	0	0	0	0	0	1	0	5	4	3	4	2	0	1 -	3
18	1	1	1	1	1	2	1	2	2	1	1	0	0	1	0	0	0	1	0	1	4	2	2	1	- 1
19	2	2	1	1	1	0	0	0		3	2	3	0	0	0	0	0	0	0	0	1	0	0	0	1
20	0	0	0	0	0	0	0	0	••••	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0
21	,	1	1	2	1	1	0	0		1	4	8	1	1	0	1	1	1	1	1	1	0	1	1	1
22	2	2	1	0	1	3	2	3		1	2	1	2	2	2	2	1	1	1	1	2	2	2	3	2
22 23	3	3	4	4	4	4	4	4		3	3	3	4	3	3	3	3	3	3	4	3	3	3	4	3
24 25 26 27	3	3	4	3	4	6	5	4		1	0	1	2	1	1	1	2	4	5	3	7	5	0		
25	7	4	5	1	0	٥	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	2	2	
26	2	2	1	2	1	1	1	1		1	2	2	2	2	2	1	1	2	1	1	2	2	2	- 2	
27	2	3	2	2	2	13	41	5		2	- 1	2	2	2	2	1	1		1	1	1	1	- 1	1	2
28 29	1	1	1	1	1	1	1	1		2	2	3	3	2	2	3	2	2	2	2	2	2	2	3	2
29	9	3	2	2	2	2	3	3		2	1	- 1	1	1	. 1	1	. 1	1	1	2	5	3	9	3	3
30	2	3	2	2	2	2	٥	0	••••	2	3	1	9	10	19	6	12	9	2	0	0	0	0	٥	4
31	0	٥	0	0	0	0	0	0	••••	0	0	٥	0	0	0	0	٥	٥	1	1	1	1	2	1	0
MEAN	3	2	2	3	2	2	3	. 2	5	3	3	2	3	2	2	2	2	2	3	2	3	2	2	3	2.4

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO S1038 GEN HOSPITAL 342 MCGILL HAWKSBURY

MONTH	NO OF	DAYS AVERAGE	CONCENT 2	4-HOUR	MAX I MUM	MAXIMUM	READING	
JAN			DATA UNAVAILA	BLE				
FEB			DATA UNAVAILA	BLE				
MAR			DATA UNAVAILA	BLE				
APR	,		DATA UNAVA!LA	BLE				
MAY			DATA UNAVAILA	BLE				
JUN			DATA UNAVAILA	BLE				
JUL			DATA UNAVALLA	412				
AUG			DATA UNAVAILA	BLE				
SEP			DATA UNAVAILA	BLE				
OCT			DATA UNAVAILA	BLE				
NOV	2	5 2.	5	13	) <sub>c</sub>	40	•	٠
DEC	3	1 2.	4	13	k	4	r.	
YEAR	5	6 2.	4	13	l.	4	1	

#### CHTARIG MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - SE NO 51038

GEN HOSPITAL 342 MCGILL HAWKSBURY

MONTH OO TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 &OVER TOTAL

DATA UNAVAILABLE .146 DATA UNAVAILABLE FEB MAR DATA UNAVAILABLE DATA UNAVAILABLE APR MAY DATA UNAVAILABLE JUN DATA UNAVAILABLE JUL DATA UNAVAILABLE AUG DATA UNAVAILABLE

SEP DATA UNAVAILABLE

OCT DATA UNAVAILABLE

NOV DEC YEAR 

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT OF DATA AR I TH FREQUENCY DISTRIBUTION. MAX 2.4 19.1 90.2 0.0 0.0 0.4 1.1 6.6 12.4

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - SE NO 52020 CHURCHILL PK NAPIER ST KINGSTON MONTH - JAN 24 KEAN . HOUR 000. 00000-0-00000-0000 00000000--000000000-.0000000 .0000000 C DATA INVAL TO INVALID INVALID INVALID INVALID INVALID INVALID INVALID ò ò Ç 0.1 

PERCENTAGE OF DATA VALID - 65.5

PERCENTAGE OF DATA INVALID - 34.4

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCREES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS O OF PARTS CITTION

	STA	TION -	SE	NO	52020	}	CHURCHI	LL P	K NAF	PIER	51 KI	Sublation of the state of the s	N			GN	Ter -	FEB	80						
HOUR	1	2	3	4	5	ú	7	8	9	10	3.5	12	13	14	15	:6	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	1000010000	00000-0000	000000000	0000000000	0000000000	0001001000	000000000	0000000000	0000000000	1000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	000000-000	000001000	0000101000	1 0 0 1 0 0 0	1 0 0 1 0 0 0	0 0 0 0 0 0 0	00000000
11 12 13 14 15 16 17 18 19	0000000	0000000	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0011100	0 0 1 1 1 0 0 0	0 0 1 1 0 0	0 0 1 1 1 0 0	00011000	0 0 1 1 0 0	*	ATAC	O O O O O O O O O O O O O O O O O O O	D -	0 0 1 0 0		00000	0 0	0000		00000	00000	0000	0 0 1 0 0
21 22 23 24 25 26 27 28 29													ATAC ATAC ATAC ATAC ATAC ATAC	INVALI INVALI INVALI INVALI INVALI INVALI INVALI INVALI											
MEAN	0	٥	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0.1

PERCENTAGE OF DATA VALID - 57.0 PERCENTAGE OF DATA INVALID - 43.0

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	PO	LUTAN	1 + 3	SULPH	UR DI	OXIDE	B							UNITS	. 0.0	1 PAR	TS, MI	LLION	ı						
	ST	TION -	SE	NO	52020	)	CHURC	HILL	PK NA	PIER	ST KI	NGSTO	N			MONT	н - к	AR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9													DATA DATA DATA DATA DATA DATA DATA	INVALI INVALI INVALI INVALI INVALI INVALI INVALI INVALI	0000000										
11 12 13 14 15 16 17 18 19												* * * * * * * *	DATA DATA DATA DATA DATA DATA DATA	INVALI INVALI INVALI INVALI INVALI INVALI INVALI INVALI INVALI	0 -										
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	00000000	000000000	000000000	000000000		00000000	00000000	000000000	000000000	0000000	000000000	. 000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000	00000000	000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 33.5 PERCENTAGE OF DATA INVALID - 66.5

PERCENTAGE OF DATA UNAVAILABLE . O.O.

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/WILLION
STATION - SE NO 52020 CHURCHILL PK NAPIER ST KINGSTON UDNTH - APR 80

	3/4	LION	- 5E	NO :	32020		HUKCH	LL P	N NA	I ER	51 K:K	6510	•			-0.4	тн - :	The state	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	14	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00.000000	0000000	000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19 20	0000000000	0000000000	000000000	0000000000	0000000000	000000000		0000000000	0000000000	000000000	0000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0	0 000000000	0 000000000	0 0000000000	0 000000000	0 000000000	0 000000000	0 300000000	0000000000	0.00000000	00000000
21 22 23 24 25 26 27 28 29 30	0000000000	000000000	000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000	0000	0000000000	000000000	0000000000	000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000
MEAN	0	0	0	0	0	٥	0	o	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION CHURCHILL PK NAPIER ST KINGSTON MONTH - MAY BO HOUR 16 17 18 9 10 12 13 .0 000000-000 -000000000 0.0

PERCENTAGE OF DATA VALID - 99.5

PERCENTAGE OF DATA INVALID - 0.5

FERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR CALLY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.3: FARTS, MILLIGN

	STA	TION	. SE	NO !	52020	c	HURCH		PK NAF	IER S	ST KIN	45761	ı			vev.	ч.	JUN.	ac						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	: 7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0000-00000	000000000	0 0 0 0 0 0 0 0	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000000000	0000000000	0000000000	000000000	0000000000	0000000000	00000000000	000000000	000000000	0000000000	000-000000	0001000000	00000000	0001000000	0 0 0 0 0 0
11 12 13 14 15 16 17 18	0000000000	000000000	000000000	000000000	0000000	0000000000	000000000	0000000000	00000	0000000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	00000000	000000000	0000000000	0000000000	000000000	00000000	300000000
21 22 23 24 25 26 27 28 29 30	000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000		3300000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000	0 0 0 0 0 0 0		0000000000
MEAN	0	٥	0	0	0	0	0	0	٥	0	0	0	0	0	0	э	0	0	O	0	O	0	0	0	0.0

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCURCES BRANCH

	POLI	UTANT	· S	ULPHI	UR D103	IDE								4	NITS	- 0.0	)1 FAR	215/41	LLIC	N						
	STAT	TON -	SE	NO !	52020		CHURCH	ILL	PK	MAPIE	R S	ST KI	NGSTON	•			"ON!	н ,	ILL	80						
HOUR	1	2	3	4	5	6	7	8	1	9 1	٥	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000	000000000000000000000000000000000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	0000000000	000000000	0000000000			000000000	0000000000	0000000000	00.0000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	000000000	0000000000	0000000000	0000000000	000000000000	0000000000	0000000	0000000000		00000000	0000000000	00000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000
21 22 23 24 25 26 27 28 29	000100000	000100000	000-000000	000000000	000-00000	000-000000	0000000	00000000		0	000000100.	00000-000	0 0 0 1 1 0 0 0	100000000	10000000	0000001	0 0 0 0 0 0 1	002000000	002000001	0 0 0 0 0 0 1	00-000000	001000001	001000000	001000000	0010010001	0010000
31 MEAN	0	0	0	0	0	0	0	0		0	0	0	0	٥ د	0	0	٥	۱ ن	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOUCES BRANCH

POLLUTANT . SULPHUR DIOXIDE UNITS - 0.01 PARTS, WILLION

	STA	TION	· SE	NO	52020		CHURCH	ILL	K NA	PIER	ST KI	GSTON	r			NON	7H -	ALG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	BEAN
1 2 3 4 5 6 7	2 2 1 0 1 0	1 2 2 1 0 1 0	1 3 1 1 1 0	1 2 1 0 1 1 0	2 2 1 0 0	1 2 2 1 1 1 0	1 2 2 1 1 1 1 0	2 2 1 1 1 0	1 2 1 1 1 1 0	1 1 2 1 1 0	1 1 1 0 0	2 2 1 1 0 1	2001	1 2 1 2 0 1	1 1 2 1	2 ! ! ! !	0 2 2 - 0 0 0	2 2 1 0 0	3 2 3 0 0 0	2 2 1 0 0	2 2 1 1 0 0	2 2 1 1 0 0	2 2 1 1 0 0	2 2 1 1 0 0	2 2 1 0 0
9 10	000	0	0	0	0	0	0	0	000	000	0	0	0	0	0	0	0	0	0	0	0 0 0	0	0	0	0
11 12 13 14 15 16 17 18 19	0000000000	0000000000	000000000	000000000	000000000	000000000	0000000000	00000000	0000000000	3000000000	00000000	0000000000	. 0 0 0 0 0 0 0	00000000	00000000000	000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000
21 22 23 24 25 26 27 28 29	0001000102	000,00000	0 0 1 1 0 0 0 0 1	0 0 1 1 0 0 0 0 0 1	0 0 1 1 0 0 1	0 0 1 0 0 0 1	0 0 0 0 1 0 0 2	0000001001	0000:00001	00000000	00000000	000000001	001000010	0010000001	00,0000001	0010000001	000000000	0000-000-	0000010011	0000011011	0 1 0 0 0 1 1 0 2 1	0010001021	0010000021	00-000000-	00100001
31 MEAN	1	1	2	2	2	2	2	1	1	1	1	1	1	1	,	1	٠,	1	1	0	0	1	2	0	0.4

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	· s	ULPHU	R DIO	IDE								UNITS -	0.0	1 PAR	TS/MI	LLION	E						
	STAT	TION -	SE	NO 5	2020	С	HURCH	LL PI	NAF	PIER	ST KI	NGSTO	N .			MONT	н - s	EΡ	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	100000000	100000000	1000000000	-000000000	1000000000	200000000	***************************************	200000	1000000000	000000000000000000000000000000000000000	1000000000	1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	1000000000	100000000	000000000000000000000000000000000000000	100000000	1000000000	1000000000	000000000	0000000000	0000000000	0000000000	100000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	0000	0 0 0	0000	0000	0 0 0	0000	0 0 0	0 0 0 0	0 0 0	0 1 0 0	0 1 0 0	- (	ATA ATA ATA	0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	0 0 0	0 0 0	0	0 0 0 0	0000	0000	0000	0 200	0000
21 22 23 24 25 26 27 28 29											*		ATA ATA ATA ATA ATA ATA ATA	INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC				*						(ip)	
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	C	o	С	o	0	0	0	o	0.1

PERCENTAGE OF DATA VALID - 46.4 PERCENTAGE OF DATA INVALID - 53.6 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESCREES BRANCH

UNITS - 11 01 PARTS/MILLION POLITITANT . SULPHUR DIGXIDE WONTH - OCT CHURCHILL PK NAPIER ST KINGSTON STATION - SE NO 52020 24 MEAN :5 HOUR DATA DATA DATA DATA INVALID INVALID INVALID DATA DATA CILLANI INVALID DATA DATA INVALID CATA 12 13 14 15 16 17 18 19 20 INVALID INVALID INVALID O O O O O DATA DATA O O O O 22 23 24 25 26 27 28 29 30 00. DATA DATA DATA DATA INVALID INVALID INVALID DATA DATA INVALID

0 0 0 0

0 0 0 0 0 0

PERCENTAGE OF DATA VALID - 26.3

MEAN

PERCENTAGE OF DATA INVALID - 72.4

PERCENTAGE OF DATA UNAVAILABLE - 1.2

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^

0 0

0 0 0 0 0 0

0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE . UNITS - 0.01 PARTS/MILLION

CHURCHILL PK NAPIER ST KINGSTON STATION - SE NO 52020 HOUR 24 MEAN 00. .... DATA INVALID DATA INVALID O O O O O O . . 0000 . . 0000 ō o 12 13 14 15 16 17 18 19 20 n M0000000 N0000000 0000--0000000 -0000000 000-000 00000-0000 22 23 24 25 26 27 28 29 30 000000-00 -000000 -000000 -000 0.1 MEAN 

PERCENTAGE OF DATA VALID - 85.1

PERCENTAGE OF DATA INVALID - 14.9

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O CI PARTS MILLION

	STA	TION	· \$E	NO	52020	4	CHURCH	ILL F	K NA	PIER	ST KI	NGS.TC	N			MONT	ta - (	DEC	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	MEAN
1 2 3 4 5 6 7 8 9	0000000000	000001000	000000000	00000-000	000000-000	0000000000	000000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	20100000000	0000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	000000000	00000-0000	0000010000	0000010000	00000-0000	00000-0000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18	000000000	0000101000	0000101000	0100000000	0 1 0 0 0 0 0 0	0100000000	0 1 0 0 0 0 0 0 0 0	0-00000000	010000 8 900	0 1 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0	0-0000000	000001000	000000	0 0 0 0 0 1	0000000000	000000-000	0000000000	000000000000000000000000000000000000000	00000-000	0000001000	0000000000	0000000000	0000000000	0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0000111000	0 2 0 0 1 1 1 0 0 0	0100001000	0100001000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 0 0 0 0 2 0	000000000000000000000000000000000000000	0000001210	0 1 0 0 0 1 0 1 1 0	0000000000	000000000000000000000000000000000000000	00000000000	0000000000	000000000000000000000000000000000000000	000000000	00000000-0	000000000000000000000000000000000000000	0000000000	0000-000-0	0000000010	0000010010	0000110010	0000210010	0000010010	000000000000000000000000000000000000000
31	0	, 0	٥	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	э	٥	0	٥	0	0	0	0
MEAN	0	٥	0	0	0	0	0	0	0	0	a	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENV! RONMENT - AIR RESOURCES GRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - D.O. PARTS/MILLION

TATION - SE N	O 52020 CHURCHILL	PK NAPIER ST KINGSTON		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	20	0.1	o	2
FEB	16	0.1	1	1
MAR	10	0.0	0	0
APR	30	00	٥	0
MAY	31	0.0	o	<b>*1</b>
JUN	30	0.0	0	T
JUL	31	0.1	1	. 2
AUG	31	0.4	2	3
SEP	14	0.1	ï	2
OC T	7	0.0	o	o
NOV	24	0.1	1	4
DEC	31	0.1	i	2
YEAR	275	0.1	5	4

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION -	SE	NO	520	20		CHU	RCH	LL	PK	NAPI	ER	ST	KIN	SST	ON											
MONTH	00	τo	05	06	to	10	11	10	15	16	10	20	21	to	25	26	ΥO	39	40	10	4)	50	scv	ER	TOTAL	
JAN		2	87			0			0			0			٥			0			0			0	487	6
FEB		5	97			0			0			G			0			0			0			0	39	,
MAR			49			o			0			0			٥			0			o			0	249	9
APR			717			٥			0			0			٥			0			٥			٥	71	7
MAY			740			0			٥			0			0			٥			c			0	740	)
JUN		,	717			٥			0			0			٥			0			0			0	71	7
JUL			738			0			0			0			٥			0			0			0	73	9
AUG			741			0			0			o			0			0			٥			0	74	1
SEP			334			٥			٥			0			0			٥			٥			٥	33	4
OCT			196			0			0			0			0			0			0			٥	19	5
NOV			613			0			0			0			0			0			٥			0	61	3
DEC			738			0			0			0			c			0			0			0	73	В
YEAR			667			0			٥			0			٥			٥			0			0	666	7
I E MM		•							_																	

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 50	ULPHI	R DIO	XIDE							1	UN:TS	. 0.0	DI PAR	RTS/M	LLIO	4						
	STA	TION -	SE	NO S	56051	м	EMORI	AL PA	RK Y	ORK/T	HIRO	51	CORNA	ALL		MONT	тн - ,	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	AN
1 2 3 4 5 6 7 8 9	00000000000	0000400000	000030003	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 1 0 0 1	0 0 0 1 0 0 0	0000100011	000121011	0 0 0 1 2 1 0 0 3 2	0 4 3 1 0	100013320124	00023400021	1 0 4 3 1 2 0 1 4 1	0 0 2 0 1 0 0 1 1	1 0 1 0 0 0 0	1004111000	0 0 0 1 1 1 0 0 0	0000110000	0000110000	1 0 0 0 0	000000000000000000000000000000000000000	001000001	100000000000000000000000000000000000000	0 0 1 1 0 0 1 1
11 12 13 14 15 16 17 18 19 20	2 0 5 0 0 0 2 1 1 3	0 0 0 0 1 1 1 1	1 0 2 0 0 0 0 2 1 1 1	1020002102	1 0 1 1 0 1 2 2 0 0	0 1 2 2 1 0	1001002210	1001001210	1 0 0 1 1 1 1 0	0 1 1 0 1 0	0 0 1 2 0 1 0	200000000	00010102	1 0 1 1 2 0 2 3	0030011154	0 2 0 0 0 0 1 1 4 4	0 5 0 0 1 0 2 0 1 5	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 2 1 2 6	0 1 0 0 0 2 1 6 4	0 3 0 0 0 0 0 2 1 1 3	0 8 0 0 0 0 1 1 5 6	0 0 0 0 1 1 4 7	0 0 0 0 1 1 1 3 6	100002122
21 22 23 24 25 26 27 28 29	1 0 1 3 6 3 0 0	4014540002	3 0 1 2 2 1 1 0 0 2	30007300005	1 0 0 0 8 1 0 0 0 0 8	1 0 0 6 1 4 0 0 0 5	2 0 0 9 1 3 0 0 0 7	0 0 0 7 1 6 0 0 1 1 1 1	0 1 0 1 3 6 0 0 4 4	0 2 1 2 0 0 4	30014	4011022	2 0 2 2	102352513	6 1 0 1 1 7 1 3 2 3	2 1 0 1 1 1 1 5 2 1	1 0 4 1 1 0 3 5 2	0 0 0 1 5 2 1	0 0 1 1 1 3 2 3 1	0 1 0 2 1 2 2 2 2 2 .	0011110445	1 1 1 0 1 2 1 7	0 1 0 2 1 0 1 1 0 2	0 1 0 3 1 0 0 1 2 2 2	1 1 2 2 2 4
31	2	3	2	2	1	1	2	1	1	0	0	0		1	٥.	1	u I	Ü	0	0	0	1	,		1.1
MEAN		4	1	1	1	1	1	1	1	1	1	- 1	- 1	2		1	8.85			i.			*		200

PERCENTAGE OF DATA VALID - 98.4

PERCENTAGE OF DATA INVALID . 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

<sup>2. ..</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS, MILLION

								+																	
	STA	TION	· SE	NO !	56051	м	EMORI	AL PA	RK Y	ORK/T	HIRD	ST	CORNE	ALL		MON	th -	FEB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.7	12	13	14	15	16	17	18	19	20	21	33	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 6 2 1 1 0 0 2 0 1	0 1 1 0 0	1 5 0 0 1 0 2 0	0 8 0 0 0 0 2 1 0 0	04-0000000	2 1 0 1 0 2 3 1 0	3 1 0 1 2 0 0	8 7 5 3 0 0 1 0 0	4 5 3 6 1 0 2 0 0	7 2 4 3 0 1 1 0 0 0	10 5 4 3 2 0	2 1 2 1 0 4 6	1 1 1 1 0 1 5	3408011011	33001:012	3 5 1 0 1 2 0 1 0	3330.00.00		0000000	1 1 0 0 2 0 0 0	6511001001	1 1 0 0 0 0	200000	2 1 0 0 0 0 1 0	3 2 2 0 0 1 1
11 12 13 14 15 16 17 18	0 0 0 0 0 1 1 2	0000000112	000000122	0100000112	0 1 1 0 0 0 1 1 2	0 0 0 1 0 0 1 2 2	0 0 0 0 0 0 1 3 2	0 0 0 0 1 0 0 1 3 2	1 1 0 0 0		2 1 2 1 0 0	2:13012174	3:12012235	1001133	1 1 0 0 1 3 3	0 1 1 4 4	5011114	1000100111	000000000000000000000000000000000000000	0001101123	0001101124	0 0 1 1 3 3	0 1 1 2 3	0 0 0 0 1 1 3 2	0 1 1 0 1 1 2 3
21 22 23 24 25 26 27 28 29	3 0 2 1 1 0 1 0 3	3 0 2 0 1 0 0 0	2 0 1 1 1 0 0 1 0	401000011	4 0 1 0 0 0 0 2 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	3 0 1 0 0 0 1 2	1 2 0 2 1	2 0 1 1 2 0 5 1 1	1	1 2 3	3	0 0 1 3 1 3	0 3 3 6 1	001204010	0 0 1 2 0 4 0 8	0 1 2 2 0 8 3	0 1 1 2 1 2 1 1 0 1 4	0 1 2 1 0 3 0 1 1 5	0 2 2 2 0 1 1 0 2	3 2 1 0 0 0 4	000000	00050	2 0 1 1 1 1 1 3 3 3
MEAN	1	,	1	1	1	1	,	1	2	1	2	2	2	4	2	4	ż	1	. 2	1	,			¥.	1.5

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESUURCES BRANCH

	PO	LLUTA	NT -	SULP	HUR D	OIXOI	E							UNITS	5 . 0.	01 PA	ARTS/A	ILLIO	N						
	ST	ATION	* }	SE NO	5605	1	MEMOR	IAL	PARK	YORK/1	HIRD	ST	CORNE	ALL		MON	TH -	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4	2 3 5	0 1 2 3	0 1 2 4	0 1 2 3	3	5	0 2 0 3 4	1 5	1 4	<sup>2</sup> 5	 5	1 0 5 2	6 2 0 5 2	5 2 1 5	5 1 1 6 2	0 2 7 2	4	0 2 2 4	0 0 2 3 2	2 4	0 1 3 3	1 0 2 4 3	0 2 5	1 2 4 2	1 1 4 3
6 7 8 9	7 2 2 3 2	2 2 3 2	8 2 4 2	1 1 2 2 4 2	2 2 3	2	3 2 4 2 2	3 6 3 3	2 4 5 3	4 6 5 3	2 4 4 4	3 4 3 4	2 6 4 3	2 9 4 2 4	2 5 3 2 4	2 4 3 2 3	2	3 2 4 3	3 2 2 4 3	2 2 3 2	2 2 2 2	2 2 2	2 2 2 2	2 2 2 2 2	4 3 3 3
11 12 13 14 15 16 17 18 19	2 6 2 0 17 1 1 0 8 1	22 0 22 3 2 0	2 3 2 0 1 9 5 4 0 2 1	11 9 2 0 17 2 3	8 2 0 3 2	3 3 0 1 3 3 1 0 2	2 0 1 2 3 1 0 2	3 2 1 0 0 2 5 3 3	11 1 0 5 5 6 1	2 2 0 2 1 1 1 8 2 6	2 0 2  3 4 7	4 0 1 1 7 7 2 2 5	1 0 1 6 3 6 8 4 5	5 0 1 5 4 5 2 5	: 0 0 13 3 1 7 6	14 . 0 2 12 1 1 6 5 4	7 2 0 1 1 4 2 1 5 3 4	20 20 2 1 1 3 3 3	3 0 0 2 8 1 1 4 2 2	6 3 0 10 14 6 1 6 1 2	6 7 3 9 3 1 3 1 2	0 11 3 2 0 3 1 2	0 12 1 2 0 1 1 2	1 0 18 1 0 3 1 2	4 1 3 8 3 2 3 2 3
21 22 23 24 25 26 27 26 29	30002000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 0 0 0 0 0 5 0	0 0 0 3	0 0 0	300000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0	1	0 0 3 7 1 0	5000	3 2 0 1 1 3 1 0	1 1 3 1 0 1 1 2 1 0	1 1 4 1 0 2 1 3 1 1	1 0 4 1 0 3 1 5 1 1	0 0 1 1 5 1 0	0 1 2 0 0 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1	0010011120	0010001113	0020011102	0 0 0 0 0 1 1 0 3	000000000000000000000000000000000000000	2011001100110110110110110110110110110110
31	2	1	2	2	2	1	2	3	3	3	2	1	0	0	••••	0	٥	0	0	0	٥	0	0	O	1
MEAN	2	2	3	3	3	2	1	2	3	3	3	2	3	2	3	3	3	2	2	2	2	2	1	2	2.3

PERCENTAGE OF DATA VALID - 96.9 PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE . O.O.

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY NEAR IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	SI	NO.	56051	N	I ROMA	AL PA	RK Y	ORK/T	HIRD	ST	CORT.WA	LL -		MONT	н -	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7	0000000000	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	0000-00000	00000000000	2 1 0 0 0 0 2 0 0 2	4 200005026	310004	000000000000000000000000000000000000000	07-00000-4	0 2 0 0 0 2 6	1 4 1 0 4 0 0 0 2 1	0420900020	3 3 6 5 0 0 0 1 0	220500010	3 2 0 0 0 1 1	9000	1 1 0 0 0 0	1 1 0 0 0 0 0	100010000	200-020000	2 0 3 1 2 1 0 0 0	0 3 0 1
11 12 13 14 15 16 17 18	0 1 1 0 2 0 2 1 2	1 1 0 2 0 2 1 2	1 0 1 0 2 1 2	1011210202	0 1 2 0 0 1 0 1	0010200102	0 0 1 0 0 2 0 2	0 1 2 1 0 1 2 4 3	1 2 3 0 4 2 3 3	0 3 2 2 6	000522	1 2 2 2 1 0 3 0 3 3	2001	2021114132	30002331551	1020121251	0 3 0 1 0 1 0 4 1	0 2 0 1 0 2 0 3 1	1 0 1 0 1 0 2 1 3 1	1 0 1 0 0 0 4 1 3 3	0001021	2002	20011	10402162	1 1 0 1 1 3 2
21 22 23 24 25 26 27 28 29 30	200000000000000000000000000000000000000	000000000000000000000000000000000000000	100000000000000000000000000000000000000	20000103000	1	000000000000000000000000000000000000000	0 0 0 0 1 1 1 1 1 0 0 0	1 0 0 0 1 1 2 1 1 0 1	0 0 0 0 0 4 18 1 0	0 0 0 1 0 4 8 8	2 0 2 0 4 8	5  0 3 1 0	2 0 0 1 5 1 0 0 2	1 2 0 1 2 3 1 0 0 1 1	2 0 1 1 0 2 0 0 0 1	0 1 0 1 0 1 1	000000000000000000000000000000000000000	0200220300	0 1 0 0 1 1 0 6 0 0 1	0000033503	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	1 0 0 0 1 2 2 1 0 0 0 1 . 0

PERCENTAGE OF DATA VALID - 97.5 PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- \$1	LPHU	R DIO	KIDE								JNITS	٠ ٥.	01 PA	RTS/M	11110	N						
	STAT	ION -	SE	NO 5	6051	м	EMOR I A	L PA	RK YO	RK/TH	IRO S	ŞΤ.,	CORNW	ALL		N:ON	TH - 1	MAY	80						
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9	0 0 1 0 1 0 5 0 1 1	0010100022	004000000	000000000000000000000000000000000000000	0 0 0 0 0 1 1	0010000010	0 1 0 0 0 1 1	0 2 1 0 4 1 1 0 1 2	2 2 0 1 2 4 1 0 3	0 1 4 1 0 1	2 3 2 0 1 1 2 1 2 2 2	2 2 1 0 1 1 0 1 3 3	300010111	1 4 0 0 0 0 0 0 1 1	500100121	5011001121	2100101222	000000121	00001112	1 1 0 0 0 2 0 1 1 1	1 1 0 1 0 4 1 2 2 0	0102030220	0 2 0 1 0 1 1 0	3 0 1 0 1 2 0	1 0 1 1 1 1 1 1 1 1
11 12 13 14 15 16 17 18 19	0 3 2 0 2 1 3 2 0 2	0 2 1 1 2 4 3 0 2	0 1 0 0 3 1 2 3 0 0	0 1 0 0 1 0 1	100000000000000000000000000000000000000	2100040000	3 1 0 0 0 2 1 0 1 0	1 1 0 0 1 1 2 0	1 1 2 1 1 0 1 3	1 1 9 0 1 1	0 0 0 2 3 0 1 0	1410032001	200121002	1 1 0 0 0	00 30 1		0100	10000	2 0 0 1 1 0 2 0 0	4000110101	3 1 1 3 1 0 0 1	1 2 3 3 2 2 1 0 0 1	1302245001	2 2 3 4 4 0 2 0	1 1 2 2 1 0 1
21 22 23 24 25 26 27 28 29	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000.000	0100000000	0120000010	1200000000	0221000000	3 2 2 0 0 0 0 0 0	2 2 1 3 0 0 0 0 1 1	2 2 2 0 0 0 0 1 4	0 2 4 1 0 0 0 1 7	5 2 2 2 0 1 0 1 1 3	3 1 4 1 0 0 0 0 0 0 1	0-2-0-00-1	2221000:02	1 2 3 1 0	0000	2462000-00	3610000010	10 0 1 4 0	3272000160	2 2 3 0 0 0 2 1 0	3 1 1 2 0 0 0 3 0 0	301000000000000000000000000000000000000	210000000000000000000000000000000000000	2 2 2 1 0 1 1 1 1 1
31 MEAN	0	1	0	0	0	0	0	0	0 2	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	, u 0.9

PERCENTAGE OF DATA VALID - 97.4

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . D.O1 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE MEMORIAL PARK YORK/THIRD ST. . CORNAALL MONTH - JUN STATION - SE NO 56051 23 24 MEAN 21 22 7 8 9 10 1.1 12 13 14 15 16 17 18 19 20 5 6 00000000 04000-00-0 02000--0-0 11000000000 0.000000-0 1 2 3 4 5 6 7 8 9 10 00000-0000 00-00-0000 00000-0000 1100000120 010040010 000070000 00010010 ... 0 0 2 0 . 323022210 0 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 5 - 3 3 . 0124030000 3 0 023-002-00 0741002000 0-40.0000 50. 3020001 500-000 . . 000000 001200 002100 11 2 01110 0 02300 10 3 0 3 15 000 0 0 0 1 4 3 .... 1 0 2 3 1 0 0 0 0 0400111000 030011 ٥ 03202000 0200232000 0-004300 0000---0000 -000-2-000 001100 0 0300 3 0 5 3300-0 3001 ٥ ٥

PERCENTAGE OF DATA VALID - 92.9

1 1

1

MEAN

PERCENTAGE OF DATA INVALID - 6.1

PERCENTAGE OF DATA UNAVAILABLE - 1 0

1

0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

1 0

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	· s	ULPHL	R DIO	SOI							ι	INITS	- 0.0	01 PA	RTS/MI	LLION	1						
	STA	TION -	SE	NO S	6051	м	EMOR I	AL PA	RK Y	ORK/TH	IRD	ST.,	CORNWA	LL		MON	тн - д	UL	80						
HOUR DAY	. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	13	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 6 7 8 9 10 11 12 13	0000000000 000	0000000000 000	0000000000 000	0000000000 1000	000000000000000000000000000000000000000	000000001 222	0000000000	0000001000	0001000000 1020	000000000000000000000000000000000000000	0 0 6 0 0 0 0 0 0 2 2 3 0 1	004.000006	0 1 0 0 0 0 1 0 0 0 3	2000000000007	0 0 21 0 0 0 1 2 1 1 3 3	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010000001 0001	0000001001 0000	0000000001 0011	000001000	000000000000000000000000000000000000000	0000011000 0032	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 0 0 0 1 0 0 1 1 2 1
14 15 16 17 18 19	3 0 3 0 2 1	3 1 4 1 2	2012202	1 1 2 1	2 3 1 0 3	0 1 5 1	0 0 1 2 2	0 0 2 1	0 1 0 1 2 1 1	3	2 0 1 3 1 1	0 0 2 1 2	0	0 1 1	0 2 1 0	1 1 0 2 2 1	1 0 2 3 1	0 2 3	1 0 3 3 2	0 4 1 2	3 1 0 4 1	1 4 2 0	1 1 2 2 3 0	1 4 2 2 0	2 2
21 22 23 24 25 26 27 28 29 30	10 10 00 00 4	0 0 14 1 3 0 0	0 4 25 3 3 1 0 1	163200004	0 9 8 1 0 0	0 3 6 2 1 1 0 0 0 0 3	3 3 0 0 0 0 0 2	0 3 7 3 0 0 0	192000002	0 2 30 2 1 0 0 0	0 1 27 7 2 0 0 0 6 2	100011110003	12 1000	3 1 2 0 3 0 0 0 0	1 0 3 0 0 0 0 3	0 1 0 0 2 1 0 . 0 4	1 1 2 0 1 1 0 4	0 1 2 0 0 0 5	2 2 0 0 0 0 3	300004	1 2 0 0 0 - 1 6	0 3 4 2 0 0 0 0 0 4	0 6 2 1 1 0 0 . 2 4	3 1 0 0 2 5	1 2 8 2 1 0 0 0
31	7	5	5	6	6	8	4	3	3	3	3	4	5	4	5	4	5	5	6	7	7	6	5	5	5
MEAN	1	1	2	- 1	1	t	1	1	1	2	2	3	2	2	2	1	1	1	1	1	1	1	1	4	1.3

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.7

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS. WILLION

	-00																								
	STA	TION .	S	E NO	56051		MEMORI	AL P	ARK Y	ORK/T	HIRD	ST	CORTIN	ALL		MON	TH .	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	:8	19	20	21	22	23		EAN
	4	4	3	3	3	3	3	3	3	3	5	4	4	4	4	4	4	4	5	5	5	5	8	6	4
2	5	7	6	6	8	6		5	5	6	5	5	5	5	5	6	7	5	5	5	7	7		*	ő
3	2	2	ĭ	ĩ	ō	0	0	0	5	6	C	Q	0	0	0	0	0		0	0	0	0	0	1	· ·
3	5 3	2	ò	o	ŏ	č	0	ŏ	o	0	0	1	1	0	0		C	0	1	1	0	0	0	0	0
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2	o	ŏ	Š	ŏ	ŏ	0	0	ō	0	0	0	0	0	1	1	1	1	,	1	2	1	1	1	1	1
9	0	Ÿ	ž	5	17	5	3	1	ŏ	1	0	0	1	1	2	2	2	×	2	1	1	C	2	2	2
1	3	2	3.5	7	2	- 7	1	1	1	0	1	1	1	1	2	2	2	2	3	1	1	1	1	1	- 1
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13	0			ö	ŏ	ž	ŏ	ŏ	ō	0	ŏ	0	1	1		0	0	0	0	0	0	1	1	1	٥
14	0	0	0	1	1	2	1	3	3	3	4	8	4	2	4	2	0000	1	0	0	2	7	6	4	2
15	0	1	0		2	1		ŏ	ŏ	ŏ	0	ŏ	o	õ	0	0	0	0	0	0	0	0	0	0	1
16	4	4	4	3				ŏ	Ÿ	2	3	1	Õ	1	0	1	٥	1		0	0	2	2	٥	1
17	0	0	0	0	2	0	0	ŏ	ò	- 7	7	à		ò	ŏ	0	0	0	2	2	2	1	1	0	0
18	0	٥	0		ö	ő	ŏ	ŏ	ŏ		À	7	0	ŏ	2	1	O	0	0	0	2	0	0	0	0
19	0	2	1	0	ŏ	ŏ	ŏ	ŏ	ŏ	0	ō	٥	o	ŏ	ō	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	U	U	•	·		٠	٠	- 7								20	_		•	0
21	0	0	100		0	O	0	2	1	1	,	0	0	O	0	0	0	0	٥	0	0	000	0	0	ŏ
22	ŏ	o	0	0	0	0	0	0	0	0	0	1	0	0	0 2	0	3	2	0		0	ò	0	õ	1
23	ō	0	ō	0	0	0	3	1	1	1	0	1	1	1	2	1	2	٥	٥	1	0	1	·	ŏ	- 4
24	0	0	2	3	2	1	2	1	1	٥	1	0	0	1	1	0	0	0	1	1	1	3	- 1	Ÿ	- 1
25	1	4	4	3 6	3	2	1	2	4	1	0	0	0	0	0	1	0	٥	٥	1	3	2	2	- 1	
25 26	2	3	4	3	4	3	2		1	0	0	1	0	1	0	0	0	0	1	1	1	ő	ó	ò	•
27	2	2	3	0	2	3	1	0	0	0	1	1	1	1	1	2		1	0	0	0		ö	ŏ	ń
28	ō	ō	ō	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	ŏ	ŏ	ŏ
29	ō	0	0	0	0	0	0	1	1	2	2	0	1	1	0	٥	1	٥	٥	1	٥	ò	2	2	ĭ
30	ŏ	ō	0	0	0	0	٥	0	3	3	1	1	2	4	3	• • • •	1	- 1	1			0	4	-	
31	2	2	2	٥	٥	0	1	1	1	1	,	1	-1	2	1	1	C	0	. 0	0	1	3	4	1	1
MEAN	1	1	ì	1	2	1	1	1	1	1	1	1	1	1	1	, 1	1	1	1	1	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 98.0

PERCENTAGE OF DATA INVALID . 1.6

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \* \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION -	SE	NO	56051		MEMORI	AL P	ARK Y	ORK/T	HIRD	ST	CORNW	ALL		A'ON	тн - :	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	1	0	0	0	0			٥	0	0	0	0	٥	0	0	0	C	0	0	0	0	0	0	0	0
2	ò	ŏ	ŏ	ŏ	ŏ	0	0	ō	ŏ			0	0	0	0	0	0	0	0	0	0	1	3	1	0
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3	1	ĭ	ò	ĭ	0	ò	ò	0	1	2	2	0	٥	1	0	1	0	0	0		0	0	0	٥	0
-		ò	0	ò	ŏ	ŏ	ŏ	ĭ	1	0	0	0	٥	1	0	1	1	1	1	1	1	0	0	1	0
5	0	Ÿ		Ÿ	2	2	ĭ	2	à	3	1	3	4	2	ì	1	0	0	0	1	0	0	0	0	1
	1	2		ò		- 6		ī	1	ō	0	ō	2	1	1	0	1	0	0	0	0	0	0	0	1
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8	0	0	0	0	ŏ	Š	ŏ	o	ŏ	ŏ	ō	ō	ō	ō	0	0	0	0	1	0	0	0	1	3	٥
9	4	4	٥		Ö	0	ŏ	ŏ	1	2	3	3	3		3	0	1	1	1	1	1	0		1	1
10	4	4	2	3	U	U	•	•					_		-										
							4	1	1	•	2	1	2	1	1		2	1	1	0	0	o	0	0	1
1.1	1	2	2	1	1	1	1			ò	7	2		Ġ		2	2	ā	0	0	ō	2	0	¢	2
12	0	0	0	0	0	00000	0	0	0	š	ò		ò	ŏ	0	5	0	ō	0	0	0	000	0	0	0
13	0	٥	0	0	0	0	0	0	000000	000	0	0	ŏ	ŏ	ŏ	ŏ	00000	ŏ	ō			0	0	0	0
14	0	0	0	0	0	0	0		0	0	0	ŏ	0	ŏ	Ÿ	ŏ	ŏ	ŏ	ŏ	ō	0	1	1	0	0
15	0	0	0	0	0	0	0		0	Ö	3	٥			ò	o	ŏ	1	ŏ	ō	ō	0	0	0	0
15 16 17 18	0	2	0 0	0000	0	0	0	0 0	0				0		ő	0	õ	0		00000	ō	0	0	0	0
17	0	000	0	0	0	0	0	0	0	0	0	0		0		- 1	ŏ	ŏ	000	0	1	1	1	0	0
18	0	٥	0	0	0			a	0	0	0	0	0	ŏ	0	ò	ŏ	ŏ	0	ŏ	ò	0	0	0	0
19	1	0		0	0	0	0	٥		0	0	0	2	·		2	1	2	3	2	2	1	1	5	1
20	0	0	0	0	0	0	0	٥	0	0	Ü	1	- 4			-		-	-	•	•	7/3		E0	
							120		2.0	- 2		140	1		o	0	0	1	1	1	0	0	0	1	1
21	3	1	0	0	0	0	0	٥	0	1	3	1		3	ŏ	ŏ			- 1		ŏ	000	o	0	1
22	2	2	1	0	1	1	0	- 1	0	- 1	1	1	- 1		3	ŏ	ŏ	ò	ò	ň	ŏ	õ	ō	0	0
23	0	2	2	2	1	0	0	0	2	0	٥	٥	0	0	0	0	~	ő	ŏ	ŏ	ŏ	ĩ	ō	o	0
24	0	0	0	0	0	0	٥	0			****	1	0		ŏ	1	č	ő	0	ŏ	ŏ	0	ō	ō	0
25	0	0	0	0	0	0	0	0	1	0	٥	0	2	1		- 1	00003	5	2	3	0	ĭ	3	2	1
26	0	0	0	0	0	0		0	٥	1	00	0	0	0	3		õ	3	2	3		ò	- 7	ī	o
22 23 24 25 26 27 28 29	0	0	0	0	0		0	000	0	0	0	000	0	0	0	0	ŏ	ò	0	0000000	0	ŏ	ò	ò	ō
28	1	1	0	0	2	1		0	٥	0	٥	0	0	0	0		Ö	0	0	o	o	ĭ	ĭ	ŏ	ŏ
29	0	0	0	0	0	0	٥	0	٥	٥		2	2	2	2	1			0	ŏ	ő	ò	ò	ŏ	í
30	1	1	1	1	1	2	1	0	,		6	2	,	2	1	3.5			9	0	0			~	
MEAN	1	1	0	٥	0	٥	٥	0	٥	0	1	1	,	1	1	٥	0	3	1	0	0	0	1	1	0.5

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE . 0.6

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIGXIDE

UNITS - O C' PARTS - ILLION

	STAT	100	· 51	E NO	56051	,	EMOR	14L F	ARK Y	ORK/TI	HIRD	st.,	CORNAL	L L		MON	TH - (	)CT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	1.2	13	14	15	15	17	18	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000001	0 0 0 0 1 0 0 0 2	0010000001	0 0 1 0 0 0 1	0000010001	0010000000	000001		0 0 0 1 0 . 0 1	4 1 0 0 1 1 0 0 1	8000-03-0-	0 0 0 1 0 0 1	1 0 0 0 1 0 0	0000000000	00100201	1000-00101	. 5000 . 511-1	0001	0 0 0 0 2 0 0 2 1 1	0000100011	0 2 0 0 0 0 0 0 1 1	00001	0000000011	10001
11 12 13 14 15 16 17 18 19	1 2 2 17 1 1 0 0	1 2 13 1 1 0 0	1 2 1 14 1 1 0 0	1 2 1 0 0 0 1 1	1 1 2 8 1 0 0 0 1 1	1 6 8 1 0 0 0	98000	800000000000000000000000000000000000000	0 9 6 11 0 1	3 3 10 3 2 1 1 8	0 0 2 5 7 3 2 2 1 4	1 0 4 2 3 3 2 3 2 3 2	3 2 3 2 1	20511	3 1 6 2 1 1 1 0	2 7 1 1 1 2 6 0	25 60 4 0 0 2 2 0	2 3 5 1 1 0 2 1 0	1 1 13 1 1 1 1 2 1 0	12 1 2 2 1 1 0	9 1 1 2 2 2 1 0	0 1 8 1 1 1 2 0 1 0	1 1 4 1 1 0 3 1 2 0	2 1 7 1 0 3 2 2 0	1 1 2 2 1 1 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29 30	0 1 0 0 2 1 10 7	07010021991	0 9 0 1 0 0 1 1	0 1 0 0 7 1 14 1	1 6 0 1 0 0 8 1 15	1 3 0 1 0 0 2 1 1 4 1	0 1 0 1 0 0 2 1 7 2	050-000051	3 0 2 0 0 7	0 2 0 2 1 0 0 0 3 1	0 1 0 0 0 5 1	0601100060	1400-00040	1200014070	1 7 1 0 0 8 - 0 5 0	1 500 - 50 - 50	000030330	1:000403-0	0100080210	0010050110	0 0 1 0 1 0 0 1 0 0	1 0 1 0 0 1 0 5 2 1	5010060211	1 0 1 0 0 7 1 8	3 0 1 2 6 1
31 MEAN	1 2	1 .	1 2	1 .	' 2	1	1	0	0	0	1	n 2	0	0	0	0 2	0	0	0	0	0	0	0 t	0	1.4

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID . 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.8

NOTES 1. " " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS . 0.01 PARTS/MILLION STATION - SE NO 56051 MEMORIAL PARK YORK/THIRD ST., CORNWALL FONTH - NOV HOUR 18 9 10 1.1 12 13 16 17 19 20 21 22 23 24 MEAN 1 2 3 4 5 6 7 8 9 5 01016000 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 121 1012000190 30531 0101100280 00280 000 0 0 0 0 2 0 0 0 0 0 0 0 1 0 0 - 0 0 0 0 0 0 0 N 0 10 0 0 0 0 0 0 0 05000-1100010000 2-0000-000 200401 10100000000 00-000-000 1010000000 0000000 : . 3

PERCENTAGE OF DATA VALID - 98.6

PERCENTAGE OF DATA INVALIO - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY NEWN IN ONE DAY

POLLUTANT - SULPHUR DIOXICE

UNITS . D.O. PARTS/MILLION

	STA	TION	SE	NO	56051		MEMOR	AL P	ARK	YORK/	HIRD	ST	CCRN	MALL	•	A CN	TH .	CEC	80		_				
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7	0 0 1 5 2 1 2 2 10	0 1 1 3 2 3 2 2 4	0 2 0 6 1 2 2 2 8	1 2 2 6 2 1 1 2 2	1 4 8 3 2 2 2 1	1 0 1 9 4 1 2 2 1	100012551221	100013661221	0001232321	8 0 4 3	0 9 8 4 9	3 6 2 0	2 2 4 2 0	1000	0 6 1 2 2 2 1	0 1. 7 3 1 2 2 2	13 12 1 2 2 2 1	6 9 5 2 2 2	0 1 6 9 9 2 3 4	0 1 2 8 5 1 3 9	0 1 5 10 6 2 2 8	5 2 2 11 1	1 1 3 3 2 2 2 4	0 1 5 3 1 2 2 8	1 3 8 4 2 3 3
10 11 12 13 14 15 16 17 18 19 20	1 1 2 1 1 1 0 0 0		1 1 1 1 1 0 0 0	3 1 1 1 0 0 0	1 1 0 0 0 0	3 1 0 1 1 0 0 0	3 1 0 1 1 0 0 0	1 1 2 1 0 1 1 0 0 0	2 1 1 1 0 1 3 0 0 0 0	2 23:0001000	3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 1 0 0 0 0 0 0 0 0 0	3 1 0 0 0 1 0 0	0 5 0		21 0000	1 2 2 1 0 0 0 0 0 0 0	1 2 2 1 0 1 0 0 0	2 2 2 0 0 0 0 0	1 1 2 1 0 0 0 0 0	1 0 0 0 0	2 2 1 1 0 0 0 0	2 2 1 1 0 0 0	1 2 1 1 1 0 0 0 0	1 0 1 1 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000430	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000501420	0000602510	0 0 0 5 0 1 5 1 0	0000301420	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 9 3 0 6	00106007330	000000000000000000000000000000000000000	0 0 0 0 2 7 2	5	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	00000220	000000000000000000000000000000000000000	0000024	000003220	000003320	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
31 MEAN	1	3 1	1	3	2	1	1	1	0	2	2	1	1	1	0	1	0		2	1	2	2	1	1	1.4

PERCENTAGE OF DATA VALID - 95.2 PERCENTAGE OF DATA INVALID - 3.2

PERCENTAGE OF DATA UNAVAILABLE - 1.6

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION -	SE NO 56051 MEMORIAL	PARK YORK/THIRD ST., CORNW	IALL	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1,1	4	11
FEB	29	1.3	3	15
MAR	31	2.3	8	22
APR	30	1.0	3	19
MAY	31	0.9	2	11
JUN	30	0.9	3	15
JUL	31	1.3	å	30
AUG	31	1.0	6	17
SEP	30	0.5	H <b>1</b> }	6
OCT	31	1.4	6	17
NOV	30	1.0	4	12
DEC	31	1.4	8	13
YEAR	366	12	8	30

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION .	SE NO 560	051 MEN	MORIAL PARK	YORK/THIE	RD ST., COF	RNWALL			
MONTH	00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 10 25	26 10 39	40 10 49	SO GOVER	TOTAL
JAN	711	20	1	. 0	٥	0	0	0	732
FEB	653	19	3	٥	0	0	٥	0	675
MAR	660	42	12	6	1	0	0	0	721
APR	688	12	0	2	0	0	0	0	702
MAY	716	8	:1	0	0	0	0	٥	725
JUN	658	7	4	0	٥	0	٥	0	669
JUL	701	22	3	3	2	2	٥	0	733
AUG	712	16	0	1	0	0	0	0	729
SEP	703	1	0	0	٥	٥	5	٥	704
OCT	677	42	13	1	0	0	0	0	733
NOV	679	30	1	0	0	0	0	0	710
DEC	666	36	6	0	0	0	0	0	708
YEAR	8224	255	44	13	3	2	0	0	8541

FREQUENCY DISTRIBUTION BY PERCENTILES

POLLUTANT - SULPHUR DIOXIDE

 PERCENT					CONCEN	TRATIONS					
OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
				0.0		2.7	4.5	6.0		30	1 2

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION

	POL	LUIANI	. 3	OLPHI	IN DIO	ATDE								ONLIB		01 -2	H 1 3 / H	100.0							
	STA	TION -	c	NO S	9006	С	ITY H	ALL !	500 GE	ORGE	ST.	PETER	BOROL	GH		MON	TH ·	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	:8	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	0000000000	0000000000	000000000	000000000-	000000000	0 1 0 0 0 0 0 0 0 0	1000000001	0000000001	0 1 0 0 0 0 0 0 0	0100000000		0 1 0 0 0 0 0 0 0 0 0	010000000	1 1 0 0 0 0 0 0	00-000000	0000000000	000000000	0000100000	0000000000	0000000000	000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	1 0 0 0 1 0 0 0	0000100100	0001000100	0000100100	0 0 1 1 0 0 1 0 0	00000-00	0000100100	0001100100	0 0 1 1 0 0	001000	0 0 1 2 0 0 1 1 0 0	000000000000000000000000000000000000000	0 0 0 0 1 1 0 0	000001100	000000000000000000000000000000000000000	0000000100	000000000000000000000000000000000000000	00-00-00	0001000000	0 0 1 1 0 0 0 0 0 1	001000	00110000001	0000000	0001001000	000-000-00
21 22 23 24 25 26 27 28 29 30	1 1 1	0 2 1 1	0 0 0 1 1 1 1	0 1 0 1 3 1	0 1 0 1 2 1	0 2 0	0 0 2 0	0 1 1 0	0 1 0 1 3 2	1 0 1 1 0	1 1 0 1 2 0		DATA	I NVALI	10 - 10 -	0 2 0 1 0	0 2 0 1 0	0 2 3 1 0	0 3 0 1 0	0200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0 0	1 0 :	0 2 0 1 1
31 MEAN	0	0	0	0	0	٥	٥	٥	,	0	0		۵۲۵ ن	INVAL	. 01	٥	С	٥	٥	0	0	o	o	c	0.3

PERCENTAGE OF DATA VALID - 82.1

PERCENTAGE OF DATA INVALID - 17.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PLATS/MILLION

		New York		W																					
	ST	ATION	- с	NO	59006	i	CITY	HALL	500	GEORGE	ST.	PETER	BURCU	GH		MON	TH - P	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000011	000000011	0	0000000011	000000000000000000000000000000000000000	0 0 0	000000000000000000000000000000000000000	0 0 2 0 2 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000100 112111	000000000000000000000000000000000000000	0000000110	000000000000000000000000000000000000000	0000010001 2221111	0000010001 2221111	000000001 2101112	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19	2	3	3	2	2	4 2	4	3	3	4 2	3	3	3	2	2	2	1	1	5	6	8	5 2	4	2	3
21 22 23 24 25 26 27 28 29	20000001	000000000000000000000000000000000000000	100002000	000000000000000000000000000000000000000	0	1 0 0 0 0 1 0 0 0	100101000	1 0 1 2 1 1 0 0 0	10121	1 0 1 1 1 0 0 0	1 0 1 1 2 0 0 0	0 0 1 1 0 0 0 0	001	0 0 1 1 0 1	0 0 1 0 0 1	0 0 1 1 1 0 0	0 0 1 0 1 0 0 0 0	0 0 1 0 1 0 0	0 1 0 1 0 0	0000-0000	01000001	00000001	0 1 0 0 0 0 1	0 1 1 0 0 0 0 0 1	1 0 0 0 1 0 0 0 0
MEAN	1	1	1	1	1	1	1	1	1	1		1	1	1	. 1	1	1	1	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 97.7 PERCENTAGE OF DATA INVALID - 2.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	- \$	ULPH	UR DIQ	3C1X							,	INITS	- 0.0	1 PAR	RTS/M[	LLICA							
	STAT	TION -	c	NO	59006		1TY .	HALL	500	SEORGE	ST.	PETER	BOROUG	Эн		MONT	H - M	AR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	t 4	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9	1 1 0 0 2 0 2 2 0 2 2 0 2	1 1 0 1 0 3 1 0 2	1 1 0 1 0 3 1 0 2 1	002021112	0003	1 1 0 0 5 0 2 1 2 1	1 0 0 3 0 4 1 2 2 1	1100203132	000000000000000000000000000000000000000	1 1 0 3 0 2 1 2 3	2 1 1 2 3	1 2  2 1 1	3 1 1 3 3	0 1 0 1 2 1 1 1 2 1	0 1 2 1 1 0 1 2 1	0 0 0 1 2 1 1 0 1 2 0 0	0 0 0 3 1 1 1 1 1 2 0	0 0 0 3 1 2 1 1 1 2 0	00000	0 0 0 2 1 1 3 1 1 2 0	1 0 0 2 1 2 2 1 2 2 0	1 0 0 4 1 2 2 1 3 1	1 0 0 5 0 2 2 1 3	3 3 1	1 1 0 1 2 1 2 2 1 2 2 1
12 13 14 15 16 17 18 19	0 1 0 0 3	1 1 0 1 1 0 0 0 3	1 1 0 2 1 0 0 4	1 0 3 1 0 0 3	0 2 2 0 1 3	1 1 1 2 1 2 4	1 1 2 1 2 3	1 1 1 3 1 2 4	1 1 1 1 6 0 1 3	1 2 1 0 3 1 1 2	1 0 2 1 1 1 2	2	1 0 1 0 1 2 0 1 3	0 1 2 0 2 3	1 0 1 0 2 3	1 0 1 0 2 3	200010022	2001032	01001022	1 1 1 0 3 3	1 1 0 3 3	1 1 1 0 3 3	0 1 1 0 3 2	2 : 0 1 1 0 2 2	20023
21 22 23 24 25 26 27 28 29	20001001	2011	1 0 1 1 0 1 1 2 0 0	0 0 1 1 0 1 1 2 0 0	0	0 0 1 1 0 1 2 1 0 1	0010012101	0010012200	0010012100	0010012100	000200000000000000000000000000000000000	0 1 1 2 1	002011110	0 0 1 1 1 1 1 0	0 0 1 0 0 1 1 1 0 0	0 0 1 0 0 1 1 1 0 0	0 1 1 1 1 1 0	0	0 0 0 1 1 1 1 1 0	0 0 0 1 1 1 1 1 1 0	0 0 0 0 0 1 2 2 1 0	0 0 0 0 1 2 1 1 0	0 0 1 0 0 1 2 1 1 0	0	0 0 1 1 1 1 0
31 MEAN	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1.0

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID . 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIGXIDE

UNITS - O.CI PARTS/MILLION

	STA	TION	- с	NO	59006	(	CITY H	HALL	500 GI	EORGE	ST.	PETER	BOROU	Эн		NON'	тн - ,	LPR.	80					-		
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	- 15	16	17	18	19	20	21	22	23	24	KEAN	
1	1	1	1	1	1	1	2	1	1	1	1	٥	1	1	••••	1	1	1	1	. 1	1	1	1	1		1
2	2	2	2	2	1	-1	1	1	2	2	1	1	0	0	0	1	1	1	2		1	i	1	1		1
3	ī	1	- 7	1		2	2	2	- 1	•	1	0	ŏ	ō	1	•	1	1	1	1	1	1	1	0		
4	1	1	1	1	1	ō	o	o	ò	0	0	ō	0	ō	ò	1	1	1	1	0	ò	0	0	ō		0
5	0	0	0	0	0	0	0	1	ī	1	1	1	ō	ō	ō	٥	0	a	o	ō	õ	0	0	0		0
6	ō	0	ō	0	ō	0	0	0	0	0	0	0	o	ō	ŏ	ō	ō	ō	ō	ŏ	ŏ	0	1	1		0
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19		- 1	- (	•	ż	- 1	,			7		- 1	- 1			- 4	7		- 1		- 1		2	ż		i
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22	1	1	2	1	2	1		*	2	2 2	2		2	1	1	1	2	2	- 2	2	2	4	3	3		4
25	2	- 2	2	2	2	2	1		2		2	2	-	2	2		2		2	2	3	3		2		ž
26 27 28	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2		-
27	2	2	2	1	1	1	1	2	2		1	1	2	2	2	2	2	3	3	3	3	3	2			4
28	- 1	- 1	1	1.	1	2	1	- 1	1	2	2	2	- 1	2	2	2	2	2	2	2	2	2	2	2		2
29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2
30	2	2	2	2	2	2	1	1	,	2	2	2	2	2	2	2	2	3	2	2	2	2	2	,		4
MEAN	1	1	1	,	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1.	1

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	NT -	SULP	HUR D	0110								UNITS	- 0.	01 PA	RTS/M	11110	N						
	ST	ATION		C NO	59006	5	CITY	HALL	500	GEORGE	ST.	PETER	BCRCU	GH		MON	TH - 1	YAS	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
3 4	1 1 2 2	1 1 2 2 2	1 1 2 2	1 1 1 2 2	1 1 2 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	1 1 2 2	0 2 2	1 1 2 2	1 2 5 2	1 1 2 4	1 2 2 2	1 2 2 2	1 2 2 2	2 2 2	1 2 2 2	0 2 2 2	1 0 2 2 2	1 0 2 1	1 1 2 2 2
6 7 8 9	2 0 0 0	0 0	0000	0000	0 0 0	0000	0 0 0	0000	0 0 0		0000	:	00000	0000	0 0 0	0000	0 0 0 0	00000	0 0 0		00000	00000	0 0 0	00000	0
11 12 13 14	00000	0 0 0	00000	0000	0000	0 1 0 0	00000	0 0 0	0 1 0 0	0	0 0 0	000	0 0 1	0 0 0 0	0000	0000	0 0 0	0 0 0	00010	00000	00000	00000	00000	0 0 0 0	00000
16 17 18 19 20	00000	00000	00000	00000	000000	0 0 0	00000	00000	00000	00000	0 0 0	0 0	00000	0	0 0 0	0 0	0000	00000	00000	000000	00100	0 0 1 0 0	0000	0 0 0	0000
21 22	0	0	0	0	0	o	0	0	0	0	0		DATA	O I NVAL	0	0	0	٥	0	••••	•••	••••	•••	••••	0
23 24 25 26 27 28 29 30	0 0 0 0 0 0 0	000000	0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000	000000000000000000000000000000000000000	0	0 0 0 0 0 0	0	000000	0000000	000000	000000	0 1 0 0 0 0 0 1	0 0 0 0 0 1	00000000	00000000	00000000	0000000	00000000	0000000	0000000	0000000	0 0 0 0 0 0
31	0	0	0	0	1.31	0	0	0	0		0	0	0	0	O	0	0	o	0	0	٥	0	c	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 94.5 PERCENTAGE OF DATA INVALID - 5.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PERTS, MILLION

	PQ	LLUTANT - SULPHUR DIOXIDE												04113	0.										
	ST	ATION	. (	NO NO	59006		CITY	HALL	500	GEORGE	ST.	PETER	BOROU	GH		MONT	н	UN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	
1 2 3 4 5	0 0 0 0 1	0 0 0 0 1	000000	00000000	00000	00000	0000000	0 0 0	000000	0	0000	000000		00000	000000	00000	000000	000000	0000000	0000000	0 0 0 0 0	00000000	0000-000	000000	000000
9	0	0000	0	0	0	0	0	0	0	0	0 0	0000	0 0 0	0 0	000	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19	0 1 0 0 0 1 0	0 1 0 0 0 1 0	0001100010	0001100010	0011000000	0 - 0 2 0 0 0 0 0	0 1 0 2 0 0 1 0 0	2000100	000000-00	20000	0011000000	0000100	0011000000	0000000	0000000	0:11000000	0 - 2 - 0 0 0 0 0 0	00000	0 0 0 0 0 0 0 0	0001001000	0:21001000	0 0 0 0 0 0 0	20000100	0011001	0 2 1 1 0 0 0 0 0 0
21 22 23 24	0	0	0	0	0	0	0	0	0	0	0		O O DATA DATA		D -	0	0	0	0	0	0	0	0	0	0
25 26 27 28 29 30	0 0 0		0	0000	0	0000	0000	0000		0	0000	0000	0000	0	00000	0 0 0	0000	0000	0000	00000	00000	0000	0000	0000	0000
MEAN	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 87.6 PERCENTAGE OF DATA INVALID - 12.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	- 5	ULP	UR DIOX	IDE							UNITS	- Q.	01 PA	RTS/N	ILLIO	N						
	STAT	LION -	c	NO	59006	CIT	Y HAL	500	GEORGE	ST.	PETER	BOROL	JGH		MON	TH -	JUL	80						
HOUR	1	2	3	4	5	6	7		9 10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
1 2 3 4 5	00000000	000000	0000000	0000000	000000	0 0 0	0			0000000	0	0000000	0000000	0000000	00000	000000	000001	000000	00000	000000000000000000000000000000000000000	0 0 0 0 1	000000	0000000	000000000
9	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	000	0	0	000	0	000	0	0	0
11 12 13	0	0	0	0	٥	0	0	0	0 0	0	:	DATA	INVAL INVAL	10 -	****						••••			
15 16 17 18 19	00000	00000	000000	00000	00000	0 0 0 0	0	00000	0 0 0 0 0 0	0000	000	000	0 0 0	00000	0 0 0	00000	00000	00000	00000	00000	00000	00000	00000	0
21 22 23 24 25 26 27 28 29 30	0000000000	00000-000	000000-000	000000000	0000000	000000000	0000000	0000000000		000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000	0000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000	000000000	000000000	0 0 0
31 MEAN	0	0	0	0		0	2	0	0 0	0				0	0	0	0	0	0	0		0	0	

PERCENTAGE OF DATA VALID - 88.7 PERCENTAGE OF DATA INVALID - 11.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	· c	NO	59006		CITY	HALL	500 G	EORGE	51.	PETER	BOROUG	Н		MON	ъ.	ف∪ن	ao						
HOUR	Ĩ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24 ME	ΔN
1 2 3 4 5 6 7 8 9	0000000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000	000000000	000000000	000000000	0000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000-000	00000-000	000700-000	00000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000
11 12 13 14 15 16 17 18 19	0000000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000	0001000000	0000000000	000000000	00000000000	0000000000	20000000000	0000000000	0000000000	000000000000000000000000000000000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0	000000000	000000000	000000000	0 0 1 0 0	000000-000	00000-000	0 0 0 0 0 0 0 0	000011000	0000011000	0000011000	0000010000	00000000	000000000	0000000000	000000000	00000-0000	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0000000	00000-0000	00000-0000	00000	0 0 0 1 1 0 0 0 0	00000
) I MEAN	0	o	0	0	0	0	o	0	o	0	0	- DA	O O	0	0	٥	٠ ٥	0	0	0	0	٥	o	o	0.0

PERCENTAGE OF DATA VALID - 96.8 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 3.2

NOTES : . .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTAN	τ -	SULPH	IUR D	OXIDE	i							UNITS	- 0	01 PA	RTS/N	ILLIO	N						
	ST	ATION	- 0	NO	59006	5	CITY	HALL	500 0	EORGE	ST.	PETE	BORCL	IGH		NON	тн -	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24	MEAN
3 4 5	0 0 0	0 0 0 0	00000	00000	00000	00000	00000	0000	0 1 1 0	0 0 0	00000	00000	00000	00000	0 0 0 0	0 0	0000	0 0 0	0 0	0000		0000		0 0	0 0 0
5 7 8 9											0 0			INVALI INVALI O O		. 0	0	0	0 0 0	000	000	0	0	0	
11 12 13 14 15 16 17	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000	00000000	000000000	000000000	000000	00000000	00000000	00000000	00000000	00000000		0 0 0 0 0 0 0	000000000	00000000	00000000	00000000	00000000	00 3000000	000000000	00000000	00000000	00000000	0000000
20 21 22 23	0	0	0 000	0	0	0		0	0	0 0	0 0	0	0 0		0			0			000				0
24 25 26 27 28 29	0 0	0 0	0000	0000	0 0	0 0 1	0 1 0 0	0 1 0 1	0 0 0 2	0 0 0 0 3	0 0 0 0 3			1 NV 1 L I		0 0 1 0 2	0	0 0 0 2	0 0 0 2	0 0 0	0 0 0	0 0 1 0	0 0 1	0000	0 0 0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	C	٥	0	٥	٥	U	U	ນ	U. 1

PERCENTAGE OF DATA VALID - 78.8

PERCENTAGE OF DATA INVALID - 21.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE WONTH - OCT STATION - C NO 59006 CITY HALL 500 GEORGE ST. PETERBOROUGH 24 MEAN HOUR M000000000 00. 000000-000 000000-000 0000-00000 12 13 14 15 16 17 18 19 20 000000-000 000-000 00-0000000 22 23 24 25 26 27 28 29 30 : c o 0.0 MEAN

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID CATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE CITY HALL 500 GEORGE ST. PETERBOROUGH WONTH - NOV STATION - C NO 59006 24 MEAN HOUR 000000-000 000000-000 1000:00000 2 3 4 5 6 7 8 9 10 000000-000 000000-000 00-0000000 -000000000 00-0000000 00-000000 00-0000000 00-000000-12 13 14 15 16 17 18 19 20 000000-000 00-000000 0000-0000 22 23 24 25 26 27 28 29 30 -0000-0000 -0--000000 0.2 MEAN

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	STA	TION	- с	NO S	9006	a -	CITY F	ALL !	500 G	EORGE	ST.	PETER	BOROUG	н		MON	TH - (	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	00000-00	0000120000	0 0 0 1 3 0 1 0 0	0000130000	0 0 0 1 3 0 1 0 0	0000-40000	0 0 0 1 2 0 0 1 0	000130010	0 0 0 1 4 0 1 1 0	0 0 0 0 0 1 0 0	0000000000	000000000		000000000		0 1 0 0 0 0 0 0 0	0 1 0 0 0 0 0	1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 0 0 0	1101101000	1 1 0 1 0 0 0	-000000000	0 0 0 0 0 0	1 0 0 1 2 0 1 0 0 0	0000
11 12 13 14 15 16 17 18 19 20	1 0 0 0 0 0 1 0 1	1000000100	1000000101	000000104	000000000	000000105	0000000	000000000000000000000000000000000000000	100010004	10001	0000000	0000000	0 0 0 0 0	0 0 0 0 0 0 0 0	0000000	0000	000 -100000	0000-100000	0 1 0 0 0 0 0 0 0	0-00-00	000-007000	000.001	000:000011	0 0 0 0 0 0 1 0	0000000
21 22 23 24 25 26 27 28 29 30	0 1 2 0 1 2 0 2 0	2 0 1 3 0 2 0	2013020	0 1 2 0 1 2 0 2 0	0 1 1 0 1 1 0 2 0	0 2 1 1 0 0 0 0 1 0	2 2 0 0 0 2 0	1 0 0 0 1 1 0	0 2 2 1 0 0 1 1 1 0	0 2 3 0 0 0 1 2 0	000000000000000000000000000000000000000	0 0 1 0 0 0 0 3 1 0	0 1 2 0 1 2 0	0 1 0 0 1 0 2 2 0	0 0 0 0 0 1 1 0	01400000000	4 0 0 0 0 2 0 0	0140000200	0 1 0 0 0 0 0 0 0	0110200200	0 1 1 0 2 1 0 2 0 0	0110110200	1020110201	0 2 0 1 0 4 0 0	0 1 2 1 0 0 1 1 1 0
31 MEAN	1	1 T	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	1	0.5

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0 0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - C NO 59006 CITY HALL 500 GEORGE ST. PETERBOROUGH

	* *			
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
MAL	25	0.3	2	3
FEB	28	0.7	3	8
- MAR	31	1.0	3	6
APR	30	1.1	2	3
MAY	29	0.3	2	5
JUN	26	0.2	,	2
JUL	27	c.c	2	2
AUG	30	0.0	1	1
SEP	22	0.1	1.	3
OCT	31	0.0	0	2
NOV	30	0.2	2	3
DEC	31	0.5	2	6
YEAR	340	0.4	3	8

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 FARTS/MILLION

ATION -	C NO	590	06	CI	TY H	ALL	500	GEO	RGE	ST	. PE	ETER	BOR	10031	н								
MONTH	00 TO	05	06	TO 10	11	to	15	16	то	20	21	TO	25	26	10	39	40	TO	49	50	SOVER	тот	AL
JAN		611		0			0			0			0			0			0		0		611
FEB		678		2			0			0			0			э			٥		0		680
MAR		740		1			0			0			0			0			э		0		741
APR		718		0			0			0			0			0			0		0		718
MAY		703		0			0			0			0			0			0		0		703
JUN		631		0			0			٥			0			0			¢		0		631
JUL		660		0			0			٥			0			0			0		0		660
AUG		720		0			0			0			0			0			0		0		720
SEP		567		0			0			0			0			0			0		0		567
OCT		742		0			0			0			0			0			С		0		742
NOV		719		0			0			0			0			0			0		0		719
DEC		741		1			0			0			0			0			0		0		742
YEAR	8	230		4			0			0			٥			0			0		0	8	234

FREQUENCY DISTRIBUTION BY PERCENTILES

PHEQUENCY	PERCENT	ION BT	PERCENTILES			CONCEN	TRATIONS					
	OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
		•		0.0	0.0	0.0	0.0		2.0	2 6		0.4

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	P	DLLUTA	INT .	SULP	HUR D	OXID	E							UNIT	s · o	.01 P	RTS	MILLIC	N							
	s	TATIO	٠,	NW NO	6101	0	LASS	E/DIC	CKENSO	N RDS	BAL	MERT	WN			7.01	тн -	JAN	80							
HOUR Day	•	2	3	4	5	6	7	8	9	10	11	12	13	1.4	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	4	1	٥	0	٥	٥	12	16	25	26	30	24	8	0	٥	0	0	٥	0	0	0	0	6	
2	0	0	0	0	0	0	0	0	1	1	1	t	1			0	0	0	o		ō	0	0	0	. 0	,
3	0 0 0	0	0	0	0	000	0	0	0	0	0	0	0	0	0	0	0	. 0	ō	0000		0	0	0	ō	í
4	0	0	0		0	0	0	0	o	0	0	0	0	0	0	0	0		1	o.	0	0	0	0	0	j
5	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	Q.	0	0	0	o	ō	0	0	0		
6		0	0	9	13	1.1	21	. 1	0	0	0	0	0	0	0	-0	ن	o	o	o	ō	1	0	1	2	li .
7	3	15	16	24	42	54	45	45	21	22	24	а	0	0	1	1	0	0	0	0	0	0	0	0	13	
8	0	٥	0																							ŝ
9			,					****								0	0	0	0	0	0	0	0	0	*****	3
10	0	٥	0	0	0	٥	٥	0	0	0	0	0	٥	9	6	14	11	6	1.1	11	3	0	0	1	3	1
11	0	0	3	21	32	1	0	٥	0	0	0	0	0	0	0		1	2	2	2	2	2	2	2	3	6
12	1	1	2		1	0	ō	- 7	ō	ō	o	ō	ō	ŏ	ŏ	0	a	ō	ō	ō	ō	ō	ō	ō	ŏ	,
13	0	٥	o		0	0	0	0	ŏ	0	0	ō	o													
14			0	0	1	0	0	0	0	1	0	o	0	0	0	0	٥	0	0	0	0	0	٥	0	0	j
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	ō	ō	0	0	0	o	í
16	0										• • • •	0	0	0	o	0	0	ō	ō	ō	ō	ō	ō	1		
17	2	1	0	0	2	1	1	0	0	0	0	0	0	0	o	0	0	0	ō	ō	ō	0	0	0	0	Ė
18	0	0	0	0	0	0	0	0	0	0	0										****	,			*****	
19			0	1	0	0	0										****	0	0	0	0	0	0	0		C.
20	0	٥	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ß.
21	0	0	0	0	٥	٥	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	í.
22 23 24	0	0	0	0	0000	o	0	0	ō		o	ō	ō	0	0	ō	ō	ŏ	ŏ	ŏ	ŏ	ŏ	ō	ō	ō	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	1	ō	ō	ō	ŏ	0	0	o	ŏ	
24	0	0	ō		0	0	3	2	3	0	1	- 1	0	o	1	0	1	ō	1	1	1	2	2	. 0	ĭ	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	O	0	o	0	o					Ó	,
25 26																				ŏ	0	0	0	0		e:
27	0	0	0	0	0	0	0	0	0	0	0	14	5	5	7	12	0	0	1	ŏ	ō	0	2	٥	2	8
28	0	0	0	0	0	0	0	0	o	0	17	6	0	ō	0	0	0	0	o	ŏ	ŏ	ŏ	0	0	1	
. 29	0	0	0	0	0	0	0	0		1	0	0	0	0	ō	0	0	0	o	ō	ō	o	0	0	0	j
30	0	0	0		0	0	0	0	0	0	0	0	0	1	1	0	0	ō	ŏ	ŏ	ŏ	ō	0	ō	ō	Ĺ
31	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	G	1	2	2	1	1	1	٥	0	ř.
MEAN	0	1	1	3	3	2	3	2	1	2	3	2	1	2	1	1	1	o	1	1	o	0	0	٥	1.3	E.

PERCENTAGE OF DATA VALID - 85.1

PERCENTAGE OF DATA INVALID - 14.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. " - INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR CALLY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O.C. PARTS, MILLION

	SI	101 TA1	N - 1	W NO	61010	0	LASS	IE/DI	CKENS	ON RD	S BA	MERT	OWN			MO	NTH .	FES	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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9 10	0	000	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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MEAN	0	0	0	0	0	0	0	٥	2	3	3	4	3	2	2	1	t	٥	0	0	0	0	0	0	1.0

PERCENTAGE OF DATA VALID - 83.0 PERCENTAGE OF DATA INVALID - 17.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

		ST	ATI	ON	٠	NW	NO	61010		LA	SSIE	/010	KENS	ON R	DŞ	BAL	MERT	OWN			MON	тн -	MAR	1	80							
HOUR		1		2		3	4	5	•	6	7	8	9	1	0	11	12	13	14	15	16	17	1	8	19	20	21	22	23	24	MEAN	
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21 22 23 24 25 26 27 28 29 30																		DATA DATA DATA DATA DATA DATA DATA	INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC INVALIC													
31																		DATA	INVALIC													
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PERCENTAGE OF DATA VALID - 6.3 PERCENTAGE OF DATA INVALID - 93.7

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. " -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/MILLION

	STA	TION	- NV	NO	61010		LASSI	E/DIC	KENSO	N RDS	BA	LMER	TOWN				MON	TH -	M:AY	80				100			
HOUR	1	2	3	4	5	6	7	8	9	10	11	13	2	13	14	15	: 6	17	18	19	20	21	22	23	24	MEAN	
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24															AVAILA												
25															AVAIL												
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PERCEN	TAGE	OF DA	TA VA	LID	- 24.	7		PERCI	ENTAGI	OF	DATA	INVA	LID	- 2	21.2		P	RCEN	TAGE (	F CAT	A UNA	VAILA	BLE .	54.0	è		

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. ,	SULPH	IUR DI	OXIDE								JNITS	٠ ٥.	D1 PAR	RTS/M	1110	N						
	STA	TION -	N	W NO	61010	)	LASSI	E/DIC	ENSON	RDS	BAL	MERTO	eN.			NON!	тн - ,	JUN	80						
HOUR	1	2	3	4	5	6	7		9	10	<b>f1</b>	12	13	14	15	16	17	18	19	20	21	22	23		EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 7 0 0	0 0 0 0 0 5 1 1 0 0	00000000000	20000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 14	0000008	39	0 0 0 0 0 0 37	0000003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 14 0 0 10	30	0 0 0 0 41 0 0 24	10 0 0 0 28 0 0 24	0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000	000000	00000000	0 0 0 0 1 0 0 18 0	000001010	0000000000	•	0 0 0 13 1
11 12 13 14 15 46 17 18 19	0000000000	0000000000	0000000000	000000000	0	000000	0000000000	0000000000	0 0 0 0 0 0	0050600000	0000600900	00000000000	0000700800	0 0 13 0 7 0 0 0 0 0	000500000000000000000000000000000000000	0 0 7 0 8 0 0 0 2 9 0 0	0050000400	0 17 0 7 0 16 0	009000000000000000000000000000000000000	0 21 0 0 0	0 0 0 0 0 0 3	000000000	0000000000	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	00006000	0	000000000000000000000000000000000000000	00000000000	12 0 0 0 0 0 0 0 0 0 0	1500000	50000	200000000000000000000000000000000000000	0000080000	500000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	000000000	0000000000	0000000000	0000500000	0 0 0 22 0 0 0	4900000	430000	22 0000	2000630000
MEAN	1	1	0	1	1	1	o	1	2	2	3	1	2	4	3	2	1	2	1	7	1	2	1	1	1.5

PERCENTAGE OF DATA VALID - 97.6 PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0 01 PARTS/MILLION LASSIE/DICKENSON ROS BALMERTOWN MONTH - JUL STATION - NW NO 61010 HOUR 24 MEAN 00:000000 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 1 5 6 7 8 9 0 1 1 2 3 1 1 5 6 7 8 9 0 1 2 2 3 2 2 5 7 8 9 0 1 2 2 3 2 2 5 7 8 9 0 1 2 2 3 2 3 5 7 8 9 0 1 2 2 3 2 3 5 7 8 9 0 1 2 2 3 5 7 8 9 0 1 2 2 3 3 5 7 8 9 0 1 2 2 3 3 5 7 8 9 0 1 2 2 3 3 5 7 0040000000 0000000000 000000000 0000-00000 0000000000 0000000000 0000001 000 2200000 7005000000 0000-00000 23 0 0 0 0 0 29 000000000 24 0000000000 

PERCENTAGE OF DATA VALID - 99.9

MEAN

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0 0 0

0.6

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MIRISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	- \$	ULPHL	R 010	XIDE								UNITS	- 0.	31 PA	RTS/MI	LLIO	N						
	STAT	ION .	NW	NO 6	1010	d	LASSI	E/DIC	KENSON	RDS	BALI	MERTO	WN			MON	TH - A	LUG	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	(1	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0500000000	000000000	000000000	0 0 0 7 0 0 0 0	0 0 0 1 0 0	0000000000	0000008100	18000	000000000000000000000000000000000000000	0 2 0 0 0 0 19 17 0	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 3 12 0 0	0 31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 22 0 0 0 0 1 12 0 0	0 1 0 0 0 0 8 0 0 0	000004000	00000000000	00000018000	0000000000	0000000000	0000000000	000000000	0000000000	00000000000	0 0 0 0 5 3 0 0
11 12 13 14 15 16 17 18 19	000000000	000000000	0000000000	000000000	0 0 0 0 0 0 0	000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000	000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000000	0000000000	000000000
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31	0	0	0	0	0	0	0	٥	0	0	0	٥	0	0	٥	0	C	0	0	0	0	0	0	э	U
MEAN	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS . O OI PARTS MILLION MONTH - SEP 80 LASSIE/DICKENSON RDS BALMERTOWN STATION - NW NO 61010 24 MEAN 20 21 22 23 8 9 10 11 12 13 14 15 16 17 18 19 3 4 7 HOUR 5 6 0000 00000.00000 0000000000 1 2 3 4 5 6 7 8 9 10 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000000000 000000 000000 0000. 0000000000 0000000700 3600 00000003500 0000 11 12 13 14 15 16 17 18 19 20 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 000000 0000000000 00000 00000 00000 0000 0000 0000000000 000000 00000 00003300 00000 000000000 21 22 23 24 25 26 27 28 29 30 000000: . 000000000 0000000000 0000000000 0000000000 0000000000 000000000 00000 00000: 000000000 000000000 000 000 000

PERCENTAGE OF DATA VALID - 95.7

MEAN

0 0 0

PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0 0 0 0

0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

0

2. .. INDICATES DATA IS UNAVAILABLE

n

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES GRANCH

	PO	LLUTA	NT -	SULPH	UR DI	OXIDE								UNITS	٠0.	01 PA	RTS/M	:LLIO	N						
	ST	ATION	. N	W NO	61010		LASSI	E/DIC	KENSO	N RDS	BALA	ERTO	WN.			MON	TH -	oc t	80						
HOUR	1	2	. 3	4	5	6	7		9	10	n	12	13	14	15	16	17	18	19	20	21	22	23		KEAN
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8 9 10	0 0 0	000	0	0	0	0	0	0	0	0	0	0 7	0 0 1	0 0 21	0 31	0 40	0 36	0 C 30	0 25	0 16	0 16	38	1 51	61	16
11 12 13 14 15 16 17 18 19 20	70 00 00 00 00 0	5300000000	35 0 0 0 0 0	16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	56	44 0 0 0 1 0 0 0	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	36 0 0 0 0 0	800000000	10000000000	18 0000000000	330000000000000000000000000000000000000	18 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 000000000	00000000000	0100000100	0700000-00	0000000000	000000100	000000	0000001	0000001	00000001	000000000000000000000000000000000000000
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PERCENTAGE OF DATA VALID - 94.1

PERCENTAGE OF DATA INVALID - 5.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. " -- -- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	ST	ATION		W NO	61010	)	LASSI	E/DIC	KENSO	N RDS	BAL	MERT	WN			MON	TH -	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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PERCENTAGE OF DATA VALID - 88.9

PERCENTAGE OF DATA INVALID - 11.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	NT .	SULPH	HUR DI	OXIDE								UNITS	- 0.	01 PA	RTS/N	ILLLIC	N						
	ST	ATION		-	61010	)	LASSI	E/DIC	KENSO	N RDS	BAL	MERTO	)WN			NO.	тн -	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24	MEAN
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9												-	DATA	INVAL	ID -										
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13	4	7	5	9	10	11	5	6	2		7	2	0	0	0	0	1	5	5	0 2 6	0	0	1	00	3
14	0	2	0 5 2	9	5	1	3	8	8	8	3	0	••••	4	4	6	6	- 6	0 5 6 0	6	6		0	0	
15	0	0 7 2 0	ō	0	0	0	0		2 8 0	ō	0	0	0	1	0	000600	0 0 1 6 0 0	0	٥	٥	0	1	0	0	Ö
16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	٥	0			٥	٥	0	0	0	0	
17	0	0	0				1	1	1	1	3	30	0		0	0	0	0						••••	
18								••••					••••	0	0	0	0	0	0	0	0	0			
19		1										••••					• • • •								****
20												•	DATA	INVA	.10 -										
21					****								****			٥	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	1		1	1	٥	٥	0	0	0	0	٥	0	0	0
23	0	0	o	1	1	1	0	0	0	0	0	0	0	0	O	0	0	ō	0	0	0	0	0	Ü	
24	0												****					****					0		
25	0	0	0			0	0	0	0	0	0	0	0	0	0	٥	0	٥	0	0	0	_	0	ő	š
26	0	0	0	0	0		0	0	0	0			0	0	0	0	0	0000	O	0	0	0			
27 28	0	0	0	0	0	0	0	0	0	0	0		0	٥	0	0	0	0	0	0	ō	0	0	0	
28		0	0	0							• • • •	- e	••••		U		Ü	.0	o	0	0	0	3	č	0
29	0					0	0	0	0	0	0	3	0	••••	0		0	3	0000	0	0	0	3		ő
30	0	٥	0	0	0	0	0	0	0	0	٥	0	0	٥	0	0	O	J	٥	o	0	U	U		·
31	۰	0	0	0	0	٥	٥	0		••••			••••	••••	••••		****		0	٥	0	0	0	٥	• • • • • •
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ME AM	0	U				,												,	_			-			

PERCENTAGE OF DATA VALID - 70.0

PERCENTAGE OF DATA INVALID - 30.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - O.O. PARTS MILLION

STATION -	NW NO 61010 LASSIE/DICKE	NSON ROS BALMERICAN		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIBLE	MAXIMUM READING
JAN	24	1.3	13	54
FEB	23	1.0	14	62
MAR	1	2.8	6	47
APR		DATA UNAV	AILABLE	
MAY	7	1.4	8	40
JUN	29	1.5	13	49
JUL	31	0.6	Ÿ	44
AUG	31	0.4	5	31
SEP	30	0.3	7	36
oct	29	2.6	18	70
NOV	25	1.0	9	56
DEC	19	0.5	4	27
YEAR	249	1.1	18	70

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

								*		
MONTHLY GR	OUP FREQUE	NCY DISTR	BUTION FOR	1980						
POLLUTANT -	SULPHUR D	MINIOE				UNITS - C	O.DI PARTS/	MILLION		
STATION -	NW NO 610	10 LA	SSIE/DICKE	ISON RDS	BALMERTOWN					
MONTH	00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 10 25	26 TO 39	40 TO 49	50 SOVER	TOTAL	
JAN	596	8	11	3	8	3	3	1	633	
FEB	558	5	4	1	2	4	2	2	578	
MAR	41	3	. 0	0	0	2	1	0	47	
APR		DATA UNA	VAILABLE							
MAY	172	э	1	3	1	3	1	0	184	
JUN	646	19	13	10	5	7	3	0	703	
JUL	716	13	4	3	2	3	2	0	743	
AUG	721	5	6	4	1	1	0	٥	738	
SEP	683	0	2	0	٥	4	u	ŭ	669	
OCT	635	14	9	9	6	12	7	8	700	
NOV	616	9	2	4	3	3	0	3	640	
DEC	503	16	1	o	0	1	0	0	521	
YEAR	5887	95	53	37	28	43	19	14	6176	
FREQUENCY	PERCENT	ON BY PER	CENTILES			NTRATIONS				
	OF DATA	MIN	10	30 FREQ	UENCY DIST	RIGUTION. 90	PERCENT 95	98 99	N'AX	MEAN
	76.6	0	0.0	0.0 0.	0.0	0.5	4.4 1	5.7 29.0	70	1,1

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

. 16																									
	STAT	NO1	NW	NO	63022	н	OSPIT	AL 35	ALGO	MA ST	NOR	тн. т	HUNDER	S BAY		SON	Ter .	N	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	٠.6	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0000000000	000000000	000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	000000000	0000000000	000000000	000000000	000000000	000000000	000000000000000000000000000000000000000	0000000	0 0 0 0 1	0 0 0 0 0 0 0 1	000400000+	0000000000	0000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0 0	000000000	0000000000	000000000	000000000	000000	0000000000	0000000000	0000000000	0000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000	000000000	000000000		0000000000
21 22 23 24 25 26 27 28 29	0000000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	0000000000	00000000	000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	0000000000	000000000000000000000000000000000000000	000000000	00000000	000000000000000000000000000000000000000	000000000	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	1000000000	.000000000	-0000000000	00000000000	0000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 98.5 PERCENTAGE OF DATA INVALID - 1.5 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

. 2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POLI	UTANT	· s	ULPHU	R DIO	XIDE							U	2714	. 0.0	1 PAR	RT5/MI	LLIO	N.						
	STAT	ION -	NW	NO 6	3022	н	OSPIT	AL 35	ALGO	MA ST	NORT	н, тн	UNDER	BAY		3:0N1	H = F	EB	80	4					
HOUR	į	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 5 6 7 8 9	0000000-0	000000000	000000000	000000000	000000000	000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0 0	000-000000	000-000000	000000000000000000000000000000000000000	000000000	000000-000	0000000000	0000:00000	00000000000	0 0 0 0 0 0	00000000	0000000000	0000000000	0000000000	0000000000	000000000
11 12 13 14 15 16 17 18 19	000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	00000000	000000000	00000000	000000000	000000000	0000000000	0000000000	300000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000		000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	000000000	000000000	0000000	00000000	00000000	000000000	0000000	000000000	000000000	00000000	00000000	000000000	00000000	000000000	000000000	000000000	00000000	0000000	000000000	000000000	000000000	00000000
MEAN	0	٥	0	٥	c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0.0

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. "\*\*\*\*" INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. " - INDICATES DATA IS UNAVAILABLE

3. ".... INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	PO	LLUTAN	T - 5	SULPH	UR D1	OXIDE								UNITS	٠ ٥	OI PA	HT5, M	11110	N						
	ST	ATION	· NW	NO	63022		HO\$P11	AL 3	S ALG	OMA S	T NOH	TH. 1	JCNUH	R BAY		SON	TH ·	MAR	80						
HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	000000000	0000000000	0000000000	000000000	000001000	0000000000	000000000	0000000000	0000000000	00000-000	000001000	0000000000	000000000	0000000000	0000000
11 12 13 14 15 16 17 18	0 0 0 0 0 0 0 0	0000000000	000000000	0000000000	0000000000	00-000000	000000000	000000000	000000000	000000000	000000000	000000000	00000000	000000000	0000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000000	0000000000	000000000	000000000
21 22 23 24 25 26 27 28 29 30	0 0 0	0	0	0 0 0	0 0 0	0 0 0	0	0	0	0	0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DATA DATA DATA DATA	O O O O O O O O O O O O O O O O O O O	D - D - D -	000		0	000						0
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MEAN	0	0	0	0	0	U	٠	Ü	0	U		٠	٠	9	•		•		•	-	_				

PERCENTAGE OF DATA VALID - 77.4 PERCENTAGE OF DATA INVALID - 22.6 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- \$	ULPH	UR DIO	CIDE								UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	STAT	ION -	NW	NO	63022		HOSPITA	L 35	ALGO	MA ST	NORT	rH. T	HUNDE	R BAY	6	MON	тн -	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	000000000	000000000	0000010000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000	0000000000	000000000	1000000000	100000000	000000000	000000000	0000000000	1000000000	000000000	0000000000	000000000	000000000	0000000000	00000000	00000000
11 12 13 14 15 16 17 18	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000100000				000000000000000000000000000000000000000	0000-0000	000000000000	0 0 0 1 0 2 0 0 0	0000000000	0	0000001	0 0 0	0000000000	0000000000
21 22 23 24 25 26 27 28 29	0000000000	100000000	1000000000	1000000000	1000000000	1000000000	0000000000	000000000	1 0 0 0 0 0 0 0 0 0	000000000	1000000000	000000000000000000000000000000000000000	0000000000	000000000	000000000000000000000000000000000000000	0 0 0 0	000000000000000000000000000000000000000	00000000	000000000	0000000000	000000000000000000000000000000000000000	0000000000	0 0 0 0 0 0 0 0	000000000	000000000
MEAN	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	٥	0	0	0	٥	0	0	0	0.0

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS MILLION STATION . NW NO 63022 HOSPITAL 35 ALGORA ST NORTH, THUNDER BAY WONTH - MAY 24 MEAN HOUR 1.3 00-0000000 0-00000000 0-000000-0 0-0000000000 .. ...0 Q o CATA DATA DATA DATA DATA DATA DATA NVALID INVALID INVALID INVALID INVALID INVALID O o J C O

PERCENTAGE OF DATA VALID - 73.9

MEAN

0 0

PERCENTAGE OF DATA INVALID - 26.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0.0

NOTES 1. " --- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

0 0 0 0

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- 5	ULPH	UR DIO	301x							4	UNITS	- 0.	01 PA	RTS/MI	LLIC	N						
	STAT	10N -	NW	NO	63022	н	OSPIT	AL 35	ALGO	MA ST	NOR	TH. 1	HUNDE	R BAY		#:ON	TH - J	UN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 K	EAN
1 2 3 4 5 6 7 8	000000000	00000000	0000000000	0000000000	000000000	00000000	0 0 0 0 0 0 0 0 0	000000000	000000100	0 0 0 0 0 1 0 0	00000000	0000000000	0000000000		000000000000000000000000000000000000000	000000000	000000000	0000-00000	0 0 0 0 0 0 0 0	0000000000	0000000000	00000000000	000000001	000000000000000000000000000000000000000	00000000
11 12 13 14 15 16 17 18 19	0000000000	0000100000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	100000000	000000000000000000000000000000000000000	0000000000		3-000	100000000	0 0 0 0 0 0 1 1	00000		10000-0000	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0	000000-00	030000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000
21 22 23 24 25 26 27 28 29	100000000	100000000	100000000	100000000	0000000000	0000000000	1000000000	1 0 0 1 0 0 0 0 0	0 0 1 0 0 0 0 0 0	001000000	001000000	011000000	000000000	0 1 0 0 0 0 0 0 0	100000000	00000001	0010000001	000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 1	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000
MEAN	0	0	0	0	0	٥	0	0	0	0	0	0	0	٥	0	۵	0	0	0	0	0	0	o	0	0.1

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	PUL	LUIAN		ULPHU	N DIO	ALDE													•						
	STA	TION	- NW	NO- 6	3022	н	OSPIT	AL 35	ALGO	MA ST	NOR	TH. TI	HUNDER	BAY		men'	тн - ,	JUL	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	KEAN
1 . 2 3 4 5 6 7 B 9 10	000000000	00000000	00000000	0 0 0 0 0 0 0 0 0	000100000	000-000000	000000000000000000000000000000000000000	0 0 0 0 0 0 1 1	0001000010	0001000000	000-000000	0 0 0 0 0 0 0 0	00000000000	000000010	0000000	0000010121	0 0 0 0 2 1 0 0 1 2	0000100100	00004		000000011	0 0 0 0 0 0 0 1 0	010000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	000000000	000000000	000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	0000,00000	00-0000000	100000	000001	0000001000	130000000	100002002	00001	10000000000	000000000	000000-000	000010000	00000000	000000000	00,000,000	000000000
21 22 23 24 25 26 27 28 29 30	000000000	0000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	0001001000	0 0 0 0 0 1 1 0 0 0	0001001000	0 0 0 2 0 1 1 0 0 0	0001010010	010000000	002001020	0 0 2 0 0 0 2 0 1 0	10010042010	0010031000	0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0	0000000000	000000000	000000000
31	0	0	o	o	0	0	0	0	0	0	0	0	0	0	0	2	2	2	1	1	0	0	0	0	0
MEAN	0	0	0	0	0	٥	0	0	٥	0	0	0	0	0	Q	. 1	1	1	0	0	٥	0	0	٥	0.2

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLL	UTANT	- \$1	JLPHU	R D10)	SIDE							U	NITS	. 0.0	1 PAF	TS/MI	LLIOI	N						
	STAT	ION .	NW	NO 6	3022	н	OSPIT	AL 35	ALGO	MA ST	NORT	гн, Т	HUNDER	BAY		I:ON1	'н - д	UG	80						
HOUR DAY	ī	2	3	4	5	6	7	8	9	10	31	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	0000100000	000001000	0001001000	000000000	000000100	0000000000	0 0 0 0 0 0 1 0 0	0000000-00	000000000000000000000000000000000000000	00000000000	0000000000	000000010	0000000000	000000000	0 0 6 1 0 0 0 0 1 0	0000000000	0000000000	000101000	00000000	0001000000	00000000	000000000
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	000000000	0000010010	000000000	001000000	, 0 1 0 0 0 0 0 0	001000000	0100000000	0410000000	0400000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0100000010	0 0 0 0 0 0 0 0	0601000000	0101000100	0 0 0 0 0 1 1 0 0	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 1 0	000000000000000000000000000000000000000	0000000000	2000000000	4 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	100000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	000000000	0 0 0 0 0 0 0 0 0		000000000	0000040000	00000	000000000	00-000000	0000000000	0000000000	000000000	000000000	000000000	000000000000000000000000000000000000000
31	0	٥	0	0	0	٥	0	0	٥	0	0	0	0	٥	0	0	0	o	G	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . U.UI PARTS, MILLION

	STA	TION -	NW	NO	63022		HOSPI	TAL 3	5 ALG	0%A 51	T NOR	TH. 1	ЗСИИН	REAY	6	HOV	TH -	SEP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	1E A N
1 2 3 4 5 6 7 8 9	000000000	0000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	00-000000	000000000	0000000000	00000000000000000000000000000000000000	3.000000000	00000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0			2000	1000010000	. 000000000	1000000000	0000000000	0000000000	-000000000
11 12 13 14 15 16 17 18 19	000000100	000000000	000000000	000000000	000000000	000000	00000000	00000000	00000000	0000000000	0000000000	00000-00000	0000000000	2	000000000000000000000000000000000000000	00.0.0.00	0000000000	00000000000	000000000000000000000000000000000000000	0000000000	00000-000	000000000	0000000000	0000000000	00000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0	0-0000000	0100000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	•••••	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000		000000000000000000000000000000000000000	204000000	10000000	0000000000	000000000	0000	000000000	00000000
MEAN	0	0	0	٥	0	٥	0	0	0	0	0	0	0	U	. u	U	U	U	1	0	0	Ų	Ú	Ü	<b>u</b> . i

PERCENTAGE OF DATA VALID - 95.8 PERCENTAGE OF DATA INVALID - 4.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

		POLI	UTANT	•	SULPH	UP DI	OXIDE							U	NITS	- 0.0	1 PAR	15/MI	LLION	•						
		STAT	ION .	NM	NO	63022	( 1	HOSPIT	AL 35	ALGO	MA ST	NOR	тн. Т	REGNUE	BAY		KONT	н - о	CT	80						
HOUR		1	2	3	4	5	6	7	8	9	10	11	1.2	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9 10	•••	00.0000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000
11 12 13 14 15 16 17 18 19 20		0000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	00000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000	000000000
21 22 23 24 25 26 27 28 29 30		000000000	000000000	0000000000	00000000	00000000	000000001	0000000000	000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000-0	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	00000000000	000000000
31		0	0	0	••••	••••	••••	o	. 0	0	0	0	0	Ü	0	G	0	0	0	0	0	0	0	0	5	5
MEAN		0	0	٥	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID . 99.3 PERCENTAGE OF DATA INVALID . 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	-00													LUBG SS											
	STA	TION -	NW	NO	63022	-	HOSPITA	L 35	ALG	MA ST	NORT	н, 1	HUNDER	BAY		VONT	н ·	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3	0	0	0	0	0	0000	0 0 0	0	0 0 0	000	0 0 0	0 0 0	1 1 2	1	!	0 0	0000	0000	0 0 0	0000	0000	3	3	0	0
5 6 7	0000000	0 0 0 0	00000	000000	00000	00000	0000	00000	000000	00000	00000	00000	0	00000	0 0	0000	00000	00000	00000	00000	00000	00000	00000	0000	0000
10	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	0	ō	Ğ	0	0	ō	٥	0	0	0	0	0	0	0	•	0
11 12 13 14 15 16 17 18 19	•		00000000	0000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	000000-00	000000000	0000000000	2000000000	.000000000	0000000000	0000100000	0000000000	000000000	000000000	0000000000	00000000	000000000	1000000000	000000000
21 22 23 24 25 26 27 28 29 30	000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	000000000000000000000000000000000000000	000000000	0000000000	0000000000	000000000		0 0 0 0 0 0 0	000000000	100000000000000000000000000000000000000	0 0 0 0 0 0 0 0	00000	000000000	0100000000	000000000	00000-0000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000
MEAN	0	0	0	0	0	0	٠ ٥	0	o	0	0	0	0	0	0	0	U	٥	٥	0	0	O	U	U	0.0

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS . C.C' PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE HOSPITAL 35 ALGOMA ST NORTH, THUNDER BAY STATION - NW NO 63022 24 MEAN 13 14 18 19 21 22 23 HOUR 2 3 4 5 6 7 8 9 00000-0000 000000-0000 12 13 14 15 16 17 18 19 20 000000-000 22 23 24 25 26 27 28 29 30 0.0 

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0 01 PARTS/MILLION

STATION - NW	NO 63022 HOSPITAL	35 ALGOMA ST NORTH, THUNDER	BAY	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
MAL	31	0.0	0	4
FEB	29	0.0	٥	2
MAR	23	0.0	0	1
APR	30	0.0	0	2
MAY	22	0.0	o	2
NUL	30	0.1	o	3
JUL	31	0.2		4
AUG	31	0.2	1	10
SEP	29	0.1	1	4
oct	31	0.0	0	2
NOV	30	0.0	1	3
DEC	31	0.0	0	3
YEAR	348	0.1	1	10

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

MONINEY GROU	P PREGUEN	CA DIZIBIBILI	ION FOR 15	380					
POLLUTANT - S	ULPHUR DI	OXIDE			UN	ITS - 0.01	PARTS/MI	LLION	
STATION - NW	NO 6302	2 HOSPIT	AL 35 ALGO	MA ST NORT	H. THUNDER	BAY			
MONTH 0	0 70 05	06 TO 10 11	TO 15 16	TO 20 21	TO 25 26	TO 39 40	TO 49 50	SOVER	TOTAL
JAN	733	0	0	0	0	0	o	0	733
FEB	695	0	0	0	O	0	0	0	695
MAR	576	0	0	0	0	0	0	0	576
APR	712	0	0	0	0	o	0	0	712
MAY	550	0	0	٥	0	0	0	0	550
JUN	712	0	0	0	c	0	٥	0	712
JUL	743	0	0	0	0	0	0	0	743
AUG	738	3	0	0	0	0	0	0	741
SEP	690	0	0	0	0	0	0	0	690
oct	739	0	0	0	0	0	0	0	739
NOV	716	0	0	0	0	0	0	o	716
DEC	742	0	0	0	0	0	0	٥	742
YEAR	8346	3	0	0	0	0	0	0	8349

FREQUENCY	DISTRIBUT	ION BY PE	ERCENTILE	s								
	PERCENT					CONCEN	TRATIONS					
	OF DATA				FREQUEN	CY CISTR	BUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	NE AN
											574	

UNITS - 0.31 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE VOLTH - GAN STATION - NW NO 630-0 435 JAMES ST S THUNDER BAY 24 MEAN 1.7 1.1 HOUR 1 2 3 4 5 6 7 8 9 0 -000000000 11 12 13 14 15 16 17 18 19 20 -0000000 0.00000000 22 23 24 25 26 27 28 29 30 U u U o a o n a 0.0 c o-MEAN

PERCENTAGE OF DATA VALID - 98.0

PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY .

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - FEB STATION - NW NO 63040 435 JAMES ST S THUNDER BAY 24 MEAN HOUR 00000-0 -000000 000000-000 -00000 12 13 14 15 16 17 18 19 20 0000000-0000000-00 22 23 24 25 26 27 28 29 00000-0.1 MEAN 

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

. 347 .

POLLUTANT - SULPHUR DIOXIDE

. UNITS - 0.01 PARTS, MILLION

	STA	TION	· N	NO.	63040		435 JA	MES	ST S	THUNDI	ER BAY					MON T	H - 1	UAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0 0	000000000	000000000	000000000	000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000000000	0000000000	0000000000	0000000000	0000001000	000000-000	0000000000	0,0000000
11 12 13 14 15 16 17 18 19	00000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000000	000000000	000000000	000000000	000000000	0.00000000	000000000	0000000000	0000000000	00000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	00000000	0000000000	00000000	000000000	000000000000000000000000000000000000000	0000000000	000000000	000000000	0000000000	000000000000000000000000000000000000000	0000000000	0000010000	0000010000	000000000	000000000	0000000000	010000010	0000000	000000000	000000000	000000000	0000000000	0000,00000	000000000	0000000
31 MEAN	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID -100.0 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUT	ANT -	SULP	HUR D	OXID	E							UNIT	s - o	. O1 P	ARTS/	MILLI	N						
	\$1	TAT 1 OF	<b>v</b> - 1	NW NO	6304	0	435	JAMES	ST S	THUN	DER 84	LY.				M:O	NTH -	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	000000000000000000000000000000000000000	000000000	00000	0000	0000000	0	00000000	00000	00000000	000000000	010000000	300000	00000	00000000	0000	0000	400000000	00000	000000000	0	101000000	101000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0
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21 22 23 24 25 26 27 28 29			01		_	0000	0000	0000	0000	0000	0000	0 0 0	 0  0 DATA	O INVA	- 01		0000	000	0	3		0			0000
MEAN	0	0	0	0	0	0	٥	0	0	0	0	0	0	٥	1	4	٥	٥	0	0	0	0	0	o	0.2

PERCENTAGE OF DATA VALID - 79.9 PERCENTAGE OF DATA INVALID - 19.6 PERCENTAGE OF DATA UNAVAILABLE - 0.6

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIGXIDE

UNITS . 0.01 PARTS/MILLION

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SULF	10K D	0.106	96							Old I .												
	51	ATIO	٠.)	NW NO	63040	)	435	AMES	ST S	THUN	ER BA	LY				MO://	(TH -	MAY	80							
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
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6													ō	ō	0	0	0	0	0	0	0	0	0	0	*****	
7	0																						0	0	*****	
i i	ŏ	0	0	0	0	0	0	٥	0	••••		••••		0	0	0	0	0	0	0	0	0	0	٥	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	1	1	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	C	0	••••	••••	••••	0	
11			0	0	0	0	0	0	0	0	0	0	0	2	0	0	G	0	0	0	0	0	٥		0	
12	0	0	ō	0	0	0	0	000000	0	٥	C	0	C	3	ū	0	ô	3	C	0	c	0	C	0		
13	0	0	0	0	0	0	0	0	0	ŏ	0	0	0	0					1	1	0	0	0	0	•	
14	0	0	0	0	0000	0	0	0	0	0	0	0	0	0	0		0		0						0	
15	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	٥		
16	0	0	0	o	0	٥	0	0	ō	0	0	3	2	0	0	0	1	1	0	0	0	0	0	0	•	
17	0	0	0	0	0	ō	0		0		3	0	1	5	4	٥	٥	0	٥	0	t	0	٥	0	1	
18	0	٥	0	0	0	٥	0	0	0	0	0		****					• • • •	••••	****			• • • •			
19				••••	0	٥	0	0	1	0	3	5	2	4	1	4	1		0	٥	0	0		. 0	1	
20	0	٥	0	0	0	0	0	••••	••••	••••	••••		••••	••••	••••		••••	••••	••••	••••	••••			••••		
21														****	****		0	0	0	0	0	1	1	1	*****	
22	1	0	0	0	0	0	0	0	••••	0	0	0	٥	0	0		****		0	٥	0	0	0		0	
23	1	1	0	0		0	1	0	0		••••		5	0	1	1	0	1	1	1	1	0	0			
24	0	0	0	0	0	0	0	0	. 0	1	1	4	4	16	13	3	0	0	0	0	1	1	1			
25	0	0	0	ō		٥	0	0	. 0	0	0	1	6	7	6	٥	0	2	3	2	1	1	0	0		
26	0	٥	0	٥		0	0	0	0	0	0	0	0	0	٥	1	0	0	0	0	0	0	ŏ	ŏ	5 P. T.	
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PERCENTAGE OF DATA VALID - 71.2 PERCENTAGE OF DATA INVALID - 28.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- s	ULPH	JR 010	XIDE								PTINU	. 0.	01 PA	RTS/M	LLLICI	N						
	STA	TION .	NW	NO (	53040	4	35 JAME	5 51	rs	THUND	ER BA	Y				NON	тн - ,	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	000000000	000000000	0000000000	000000000	000000000	000000	000000000			000000000000000000000000000000000000000	0 - 0 0 0 0 0	0 0 0 0 0 0 0 0	200000000000000000000000000000000000000	0 0 1 1 0 0 0 0 0	30010000	02100-000	0010010000	0000010000	0000010000	00000000000	0000010000	0000010000	000000000	0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	000000000	000000000	0000000000	0000000000	000000000	000000000	0	0000000000	0000000000	3100000000	500000-00	100000000000000000000000000000000000000	00100100	0 2 0 0 0 0 0 0 0 0 0	0020000	000000000	0 0 0 0 0 0 0	0 0 0 1 1 1 0 0 0	1 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	1 0 0 0 1 0 0 1 0	000000000000000000000000000000000000000	000000000	(0000000000	100000
21 22 23 24 25 26 27 28 29	0000000000	000000000	0000000000	0000000000	000600000	000000000	0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00120.		0 0 0 0 0	00000	011000	0000	00000	1 2 1 1 0 1 0 0 0 0	0000-0000	200100000	0001010000	00000000	0 1 0 0 0 0 0 0 1	0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 1	00000000	0000000000	000000000000000000000000000000000000000
MEAN	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	С	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION . NW NO 63040 435 JAMES ST S THUNDER BAY MONTH - JUL HOUR 9 10 11 12 13 14 16 17 18 19 15 20 21 22 23 24 MEAN 1 2 3 4 5 6 7 8 9 0000000000 00000000 0000000000 0000000000 0000000000 00000-0000 0000-0-0000 0000-000000 0000-0-000 0000-0000000000 0000000000 0000000000 0000000000 0000000000 0000-0000 00000 0 0 11 12 13 14 15 16 17 18 19 20 00000-0000 00000-0000 40. 00. 000 0 000011 00000-0000 0000000000 000000 0000000000 3513000000 4000007000 00000000000 0000000000 0-00. 0000001100 0000001100 00. 0000000000 0000-0-0000 101000-000 .. 000-000 0000-00 0-03000 0000-00 00000 00-00 0000 0000 0 .... 0 3 0 0 0 1 1 0 0 0 0 0 1 0 0 21 22 23 24 25 26 27 28 29 30 0000000000 0000000000 0000000000 .000000 0000000000 0000000000 0000000000 0000000000 0000000000 0 0000000-00 0000080-00 0800-00000 0000000000 0-000-0000 0001040100 0-0050 0-00-00000 0210100 00000000 0000000000 0000000000 0000000000 0-000-00 200 0 00

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PERCENTAGE OF DATA VALID - 98.4

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31

MEAN

PERCENTAGE OF DATA INVALID - 1.6

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PERCENTAGE OF DATA UNAVAILABLE - 0.0

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NOTES 1. " ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "." INDICATES DATA IS UNAVAILABLE

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3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

0 0 0

0 0

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	S	TATION	• • • 1	-	63040	)	435	JAMES	ST S	THUN	ER B	4				MC	TH -	AUG	во						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	٥	0	0	0	٥	٥	0	٥	0	0	0	0	٥	0	0	0	0	٥	0	0	٥	o	0
2	0	0	o	0	0	õ	ō	ŏ	ŏ	ō	ō	ŏ	ő	ŏ	ŏ		• • • • •		••••	••••	••••			••••	• • • • • •
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4	0	0	. 0	0	0	0	0	٥	0	٥	0	٥		0	••••		••••	••••	••••				• • • •	••••	*****
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19	0	0	0	0	0		0	0	0	0	0	0	1	0	1	0	1	0	0	0	o	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0
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26	0	0 0 0	0	0	0	0	0	٥	0	0	0	0	0	0	o	0	0	1	0	ō	0	0	0	0	ō
27	0	0	0	00	00	0	0	0	0	0		• • • •			••••			0	0	0	ŏ	0	0	O	0
28	0	0	0	0	0	. 0	-	****	0	0	2	3	1	5	4	5	4	4	2	1	0	0	0	0	1
29 30	ŏ	0	0	0	0	0	0	••••	0	0	0	••••	0	1	0	0	0	0	0	0	0	0	0	0	0
30	9	3		0	o	0	U	0	0	0	0	٥	٥	0	О	٥	0	0	0	0	0	0	0	Ú	٠
31	0	0	٥	0	0	0	0	0	0	٥	0	5	٥	0	0	0	0	0	٥	0	0	0	٥	0	0
MEAN	0	0	0	0	٥	0	o	٥	0	٥	o	0	0	1	ī	1	1	0	o	٥	0	0	٥	٥	0.3

PERCENTAGE OF DATA VALID - 84.9

PERCENTAGE OF DATA INVALID - 15.1

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

#### UNITS - 0.01 PARTS/MILLION

	PUL	LUIANI		OLPHU	M DIO	ITUE								Old L 1 3		U	A 1 27 III.	LLLIO							
	STA	TION -	NW	NO 6	3040	43	5 JA	MES	ST S	THUN	DER B	ΔY				7. OM	TH - 9	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	00000000	000000000	000000000	0 0 0 0 0 0 0 0 0	000000-00	000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000	0000000	0000000000	000000100	00-0000-0.	0010000000	20000000000	000000000000000000000000000000000000000	00-0000000	0010000000	0000000000	000000000	000000000	0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	000000000	0000000000	0000000000	0000000000	0000000000	0000000000		000000		000000000		1000000000	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000000000	8 300000000	100000004	000000000000000000000000000000000000000	000100010	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000	0000000000	0000000000	000000001	000000000	0000000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0	1000000000	0000000000	0 0 0 0 0 0	0000000000	0000000000	•	00.0000000	00000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000413	000000000000000000000000000000000000000	0,0000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	00000-00NO 0	00000000000	0000000000	000000000000	00000000000	000000000000000000000000000000000000000
- E AM	u	U	0	v		•	•			•	·	٥		•		,	•		•		•	-	V-1	_	

PERCENTAGE OF DATA VALID - 97.4

PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- S	ULPHU	R DIO	RIDE							u	NITS	. 0 (	TI PAR	TS/M	LLION	•						
	STA	TION .	NW	NO 6	3040	4:	35 JAM	ES S	s	THUNDE	R BAY					MONT	rH - 0	ст	80						
HOUR	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7	0000000000	0000000	00000000	00000000	00000000	000000000	000000000	00000000	0000000000	0000000	0 0 0 0 0 2 0	0 0 0 0 0 2	00001020	00020030	00050000	00001000	00774000	0000-000	00-00000	00100010	000000-0	0000000	00000000	000000000	00000
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	00000000	00000000	0000000000	0000100000	0000100000	0000000000	00000000	0000000000	0000000000	000000000	0000000000	0000000000	00000000	0000000000	0000000000	000000000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	0000000000	0000000000	000000000	000000000	0000000000	000000000	000-000000	000000000	0	000000	0000000000	•••••	0000000000	0000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000000	0000000000	00000000	000000000
31	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	٥	O	0	0	0	0	0	0	0	0
MEAN	0	٥	0	٥	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	· NW	NO (	53040	4	135 JA	LMES S	1 s	THUNDE	R 84	Y				MON	тн - н	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	1.4	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	00000000	0000000000	00000000	000000000	000000000	000000000	000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000	000000000	00000000	00000000	0000000	000000000	0000000000	000000000	000000000	0000000000	000000000	0000000000	0 1 0 0 0 0 0 0 0 0	0000000000	000000000
11 12 13 14 15 16 17 18 19	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	00000001	0 : 0 0 0 0 0 1	0 0 0 0 0 0 1	0-0000000	0000000000	100000100	1000-00000	0000000	-000-00000	0000100000	0 0 0 0 0 0 0	0000000000	000000000	000000000	000000000	000000000	000000000
21 22 23 24 25 26 27 28 29 30	000000000	000000000000000000000000000000000000000	00000000	000000000	000000000	0 0 0 0 0 0 0	000000000	000000000	000000000	0000000000	000000000	000000000	000		0 1 0 0 0 0 0	0 0 0 0 0 0 0	-0000000	10000000	1 0 0 0 0 0 0 0 0 0 0 0 0	100000000	000000000	000000000	0000000000	0000000000	00000000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	٥	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PC	LLUTA	INT -	SULP	HUR D	IOXID								UNITS	5 - n	01 P	RTS/	ATT LE	)N						
	51	ATION		NW NO	6304	0	435	JAMES	ST S	THUND	ER 84	Y				MON	TH -	DEC	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0		••••	0	0	0	Q	0	٥	0	0	0	0	0
2	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	ō		0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0
4	0	0	0			0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0 0 0	0	0	0	••••	17400-900-900 CM	••••		••••	••••	••••				••••	••••	
6	••••	••••		****	••••		0	0		0	0	0	0	0	0	0	0	c	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	ŏ	0	ŏ
	0	ŏ	0	0	ŏ	0	Š	ö									ö	ŏ	0	0	ő	ő	ŏ	ŏ	ŏ
10	ő	ŏ	Ö	ő	ő		ŏ		0		0	0	0	٥	0	0	ŏ	ŏ	ŏ	ő	ŏ	ŏ	o	ō	ŏ
10		٠			U	U	•		U			·	•		·		•	•			•	•			
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0		0	0	0										0	0	0	0	0	000	0	0	0
13	0	0000	0	. 0	0	0	0	0	0	0	0	0	0	0	U	0	0	0	000	0	0	0	0	ō	3
14	000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥		0	0	٥	0		0	0
15		0	0		0	0	0	0		0	0	0	0		ō	0	0	0	٥	0	0	0	0	0	0
16	0	٥	0				0	0	0		0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0
17	0	0	0				0	0	0	0	••••	0	0	0	0	0	0	0	0	0	0	0	0	o	0
18	0	0	0				0		0	0	0	0	0	0	0	0	0	0	0		0	0	ő	ő	ŏ
19	0	0	0				0		0	0	0	0	٥	ö	0	0	ö	0	0	0	0	0	ŏ	ő	ŏ
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22	0	0	٥			0	0		0	0	0	0	0	0	0	0	0	0	000	0	0	0	0	0	0
23	0	0	0				0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
25 26 27 28	0	000	0		0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	ő	ő
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20	ŏ	ő	0				0	0	ö	0	ò	ò	ó	ő	Ö	ó	ŏ	3	ò	ő	0	ŏ	ŏ	ŏ	ŏ
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30	ŏ	ŏ	ŏ		ő	ő	ŏ	0	ŏ	ŏ	ő	ő	ő	ŏ	ŏ	Ü	ŏ	ŏ	ő	ŏ	ŏ	ŏ	0	ō	0
31	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	٥	0	٥	0	0	0	٥	٥	۰
	•						100		-									1.5	376	1.6	100				
MEAN	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 94.9 PERCENTAGE OF DATA INVALID - 5.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALIO DATA FOR DAILY MEAN IN ONE DAY

	ONTARIO M	INISTRY OF THE ENVIRONME	NT - AIR RESOURCES E	SHANCH
MONTHLY SUMMARY	OF HOURLY AND 2-HOUR	LY DATA FOR 1980		* * * * * * * * * * * * * * * * * * *
POLLUTANT - SULP	HUR DIOXIDE	ì	NITS - O.C. PARTS, MILL!	ON
STATION - NW NO	63040 435 JAMES	ST S THUNDER BAY		4 × ×
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	N'AXIMUM READING
JAN	31	0.0	o	The Property
FEB	28	0 1	II see	13
MAR	31	0 0	. 0	2
APR	24	G 2	i i	11
MAY	20	0.3	2	16
JUN	30	0.2	• , ,	6
JUL	31	0.2	· ·	- B
AUG	25	0.3	1	12
SEP	30	0.1	1	ā
oct	31	0.1	1	5
NOV	30	0.0	0	2
DEC	30	0.0	0	j
YEAR	341	0.1	2	16

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

			200		7.222
MONTHLY	GROUP	FREQUENCY	DISTRIBUTION	FOR	1980

POLLUTANT -	SULPHUR D	IOXIDE				UNITS - C	0.01 PARTS	MILLION		
STATION -	NW NO 630	40 431	S JAMES ST	S THUNDER	BAY					
MONTH	00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 TO 39	40 TO 49	50 SOVER	TOTAL	
JAN	729	0	0	0	0	0	0	0	729	
FEB	678	0	1	٥	0	0	0	0	679	
MAR	744	0	0	0	٥	0	0	0	744	
APR	573	i	•	0	٥	0	0	0	575	
MAY	524	4	1	1	0	0	0	0	530	
JUN	705	10	0	0	0	0	0	0	706	
JUL	729	3	0	0	٥	0	0	0	732	
AUG	626	3	3	0	0	0	0	0	632	
SEP	699	2	0	0	0	0	0	0	701	
OCT	741	0	0	0	0	0	0	0	741	
NOV	713	0	0	0	0	0	0	0	713	
DEC	706	0	0	0	0	0	0	0	706	
YEAR	8167	14	6	1	0	0	0	0	8188	
FREQUENCY	DISTRIBUTI	ON BY PER	CENTILES							
	PERCENT OF DATA			FREQ		NTRATIONS RIBUTION.				ARITH
	VALID	MIN	10	30 5	0 70	90	95	98 99		MEAN
	93.2	0	0.0	0.0 0.	0.0	0.0	0.3	1.1 2.6	16	0.1

POLLUTANT - SULPHUR DIOXIDE

	STA	TION	. NE	NO	71001		29 HI	LLCRES1	AVE	WA	WA					::08	TH -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	7.1	12	13	14	15	10	17	: 0	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	00010101	0 0 1 1 0 1 1	0 0 1 1 0 0 1 1	0 0 1 1 0 0 1 1	0 0 1 1 0 0 1 1	0 0 0 2 1 0 1 1	D 0 3 1 0 1	0 0 3 1 0 1 1 1	0 0 0 3 1 0 1 1 1	0 0 3 1 1 0 1 2	0	0 0 2 0 1 0	3	0 0 0 2 0 1	0 0 1 0 1 1	0 0 1 0 1	204-0-00-	-00-0-00-	0 6 1 0 0 0 0 1	0 3 1 0 0 0 0 0 14	000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 1 0 1 0 1	0 0 2 1 1 0 0 55	0012000152
10 11 12 13 14 15 16 17 18 19 20	2 0 7 0 0 0 0 1 0 1 0	000000000000000000000000000000000000000	10 0 16 0 0 0 0	0 5 0 0 0 0 1 0 4 5	4 0000001053	4 0 30 0 0 0 1 0 3 1	3 0 120 0 0 0 0	2 87 0 0 0 0 0 0 0 2	92 00 00 00 00 00 00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 132 0 0 0 0 0 0 0 1 3	0 32 0 0 0 0 0	1 0310001011	0 5 1 1 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1	0000	0 0 1 1 1 1 0 1 0	1 0 0 0 1 1 1 1 1 1 0	0 4 0 1 1 1 1 0 0	0 7 0 1 1 1 0 1 2 0	1 0 9 0 1 1 1 0 1 5 0	0 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 3 0 1 0 2 0 1 1 8 1 8	0200010126	000000000000000000000000000000000000000	2 0 0 0 0 0 1 0 5 2
21 22 23 24 25 26 27 28 29 30	3002100010	200312	2 0 0 3 1 7 1 0 1 1	2 0 0 2 1 12 0 0 1 1	2002180011	200214	2 0 0 2 1 3 0 0 0 1	200032200012	2002230013	200223000.2	2002120001	2002	2 0 0 2 0 37	23 0	10015	1 0 2 1 21 11 0 0	0 2 0 0 0 0 1	0000040011	0002030001	0012050111	0022020111	0 0 2 3 0 1 0 2 1 1	0 0 3 2 0 1 0 1 1 1	00442010110	1 0 1 2 3 7 0 0
31 MEAN	1	1	2	2	1	2	5	4	4	2	5	2	2	2	3	2	1	1	1	2	2	2	1	3	2.1

PERCENTAGE OF DATA VALID - 97.0 PERCENTAGE OF DATA INVALID - 3.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. " INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNIT													S - O.DI PARTS/MILLION											
	FOLLOWING SULFRUR DIQUIDE ON													ONLI	IIS - Q.UI PANIS/MILLION										
	STA	TION -	NE	NO	7100		29 HI	LLCREST	AVE	WA	WA					NON	TH - 1	FEB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	2 1 0 0 0 0 1 1 3	2100010123	2 1 0 0 0 1 1 0 2 2	2 1 0 0 0 1 1 0 1 1	0000	2100010012	2 1 0 0 1 0 1 1 3	2 2 0 0 0 1 0 1 1 0	2 2 0 0 0 1 0 1 1 0	2 1 0 0 0 1 0 1 1 0 0	0	000000000000000000000000000000000000000	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	2000-00000	2 0 1 0 1 3	1 0 0 0 1 1 4 1	1 0 0 1 1 5 0	1 0 1 1 6 0	2 0 0 1 1 0 1 1 4 0	1 0 0 0 1 1 1 4 0	2 1 0 0 0 0 0 1 7 1
11 12 13 14 15 16 17 18 19	0 1 0 1 3 0 3 0 0 0	0100000000	0-00000000	0100002000	000100000	000-00-000	000100000	0 0 2 0 0 5 0 0	0 1 0 2 1 0 0 0 0 0	0103200000	0 0 0 0 0 0	0	15 19 0	0	. 1	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 >00 0000	0 0 0 0 0 0	0 000000000	0000000000	63 2 1 0 0 0 0	61 9 4 1 0 0 0 0	1111334	0 3 5 3 0 1 0
21 22 23 24 25 26 27 28	0 0 2 0 0 1 0 1 0	00100000	000000000	0 0 1 0 0 0 0	000000000000000000000000000000000000000	000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	000001000	0 0 0	0000	0 0 0	00000	2	0 7 0 0 0 7 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02000000	0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0	0 4 0 0 0 0 1 0 0	0 3 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
MEAN	1	0	0	0	0	0	0	1	0	0	0	. 0	1	1	3	2		0	1	0	1	3	3	1	U. ý

PERCENTAGE OF DATA VALID - 96.3 PERCENTAGE OF DATA INVALID - 3.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAJLY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAR STATION - NE NO 71001 29 HILLCREST AVE WAWA 1.1 . 0 0 5 0 20 . 000000000 0:022000000 74 000000 0:0300000 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 29 30 0-00000000 0-00000000 .. 00000-0000 00000-0000 000000-000 4 2 0 0 0 0 0 0 0 0 000000-000 000000-000 3 5 0 0 0 0 0 0 1 000000-000 03000-0900 n ^ o

PERCENTAGE OF DATA VALID - 83.2

0 0 0 0 0 0 2

MEAN

PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE - 12.9

0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

	PO	LLUTA	NT -	SULP	HUR DI	OXIDE								UNIT	s - o	01 P	RTS/N	ILLLIC	M						
	ST	ATION	+ N	E NO	71001	1	29 HI	LLCRI	EST AV	E WA	WA					M:00	ITH -	APR	80						
HOUR		2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
	1	0	0	0	0	0	0	. 0	0	0	0	0		0		0	o	0	0	1	3	11	7	5	1
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3	4	4	2	0	0	1	. 1			0	0	0	٥	000	4	2	0	0	0	0	D	ő	ŏ	ŏ	4
4	1	1	1	1			1	1	1	1	1	- 1	0	0	2	4	• • • •	0	0	0	0	5	ő	ŏ	
5	000	0	0	0	0	0	0	0	5	5	1		0	0	,	5	2	0	0	ő	ŏ	0	ő	ŏ	ė
6	0	0	0	0	0		0		0	0	0	0	0			0	ŏ	ŏ	ŏ	ŏ	ŏ	0	ŏ	õ	ŏ
7	0	0	0	0		0	0	٥	0	0	0	••••	0	0	0										*****
8	0	0	0	0	0	0	0	٥	0	0	0	0						•••				0	0	0	
9					••••		••••	••••		••••	0	0	0	0	0	0	0	0	0	0	0	ŏ	ŏ	õ	0
10	0	0	0	0	0	0	0	0	0	0	0	••••	0		0	U		·		U		•			
11			0	c		0	0	0	0	0	U	٥	0		U	0	0	0	0	0	0	0	0	2	?
12	0	000				õ	ŏ			ŏ	2	4	2	12		0	2	0	0	0000	0	0	0 0 0 0	0	1
13	0	ŏ	0	0		0	0	ŏ		0	0	0	0			0	2000000	0000000	00000000	0	0	000	0	0	0
14	š	ŏ	ŏ	č		ō	ō	ō	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0
15	ő	ŏ	ň	č		ŏ	ō	ŏ	o	0	0	. 0	0	0	0	0	0	0	0	0	٥	0	0	0	0
16	ŏ	0	ň	è	0	0	0	ō	ō	0	0	0			0 0 0	0	0	0	0	0	0000	0		0	0
17	0	ŏ	ŏ	ò		ŏ	ŏ	ō	ō	0		0	0	. 0	0	0	0	0	0	0	0	1	8	17	1
17	27	15	ă	- 2	2	ī	ĩ	1		0	0	٥	15	17		0	0	0	0	0 0 0 0 3	1	0	1	_1	
19	- 1	- 7	ī		1	1	1	1	0	0		0		. 0	0		0		0	٥	0	0	2		1
20	5	8	6	4	3	3	2	2		••••	2	1	C	0	0	0	•	2	3	3	2	3	6	9	3
21	10	15	16	12	13	8	6	5		1	0	0		0	0	0	C	0	0	0	٥	0	0	0	4
22	,0	ő					ō		0	0				. 0	0	0	0	0	0	0	0	0	1		. 0
23	2	7	5		. 0		ō	0	0	0	0					0	0000	000	000000000	0000	000	0	0		
24	ō		õ				0	00000	0	0	0		****		0	0	0	٥	0	0		0	0	000	0
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26	0	ō	č		0 0	ŏ	0	0	0	0					0	****	0	0	0	0	0	0	0	0	0
27	ŏ	ŏ	0		0	ō	0	0	0	0	a	C		0		٥	0	0	0	0		0	0	0	0
28	o	ŏ	č		0	0	0	0	0		0	C		0	0			0	٥	0	0		0		
22 23 24 25 26 27 28 29	ō		ō		0		0000000	0	. 0	0	0							0			0	0	0		
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MEAN	2	2				1	0	0		0	0		) 1	1		0	0	0	0	0	0	1	1	2	0.7

PERCENTAGE OF DATA VALID - 93.6

PERCENTAGE OF DATA INVALID - 6.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.31 PARTS/MILLION

	STA	TION -	NE	NO	71001		29 H	ILLÇR	EST A	VE W	AWA					∵ა•	TH -	MAY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	: 9	19	20	21	22	23	24	MEAN
1	0	0	О	0	0	0	0	••••	0	0	0	٥	0	0	0	0	0	٥	0	0	٥	0	0	0	0
2	0	0	0	0	0	0	О	0	0	0	٥	0	0	0	0	0		o	o	o	ō	2	6	4	ī
3	5	4	1	0	0	0	0	0	0		0			0	0	0	0	J	o	0	ō	o	o	0	0
4	0	0	0	0	0	0	o	0		0	0	0	0	0		0	С	3	0	o	ō	0	0	0	0
5	0	0	0	0	0		0	0	0	O	0	0	0	0	2	0	0	3	0	0	ō	0	0	0	0
6	0	0	0	0	0	٥	0	0	0	0	0	0	3	0	0	0		ن	C		0	0	0	0	0
7	0	0	0	0	0	0	0		0	0	0	0	2.4	0	1	0	12	C	0	0	4	0	0	0	2
8	0	0	0	0	0	0	0	0	31	34	0	0	0		0	0	٥	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	0	0	0	0	0	• • • •	0	0	٥	0	0	0	õ	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	••••	0	O	0	o	ō	0	0	o	0	ō
1.1	0	0	0	0	0	٥	0	0		0		1	0		0	0	0	ð	0	0	0	0	0	o	0
12	0	0	0	0	0	Q	0	0	0	0	0	0		0	C	0	0	3	0	0	0	0	0	0	0
13	0	0	0	0	O	U	0	0	0	U		·	0	Ú	U	ō	J	_	Ü	ŭ		3	5	ā	
14 15 16 17	0	0	0	0	0	0	1	4	1	5	2	4	0	0		0		o	ō	ō	ō	0	0	ō	1
15	0	0	0	0	0	0	0	0	0	0	0	O		0	0	0	0	0	ō	ŏ	ŏ	ō	0	ō	o
16	0	O	0	0	0	0	٥	0	0		0	0	0	0		٥	0	ō	ŏ	ŏ	ŏ	ŏ	6	7	ĩ
17	6	2	0	0	0	0	0		0	0	O	0	0	o	ō	ō	o	0	ō	ŏ	ĭ	ĭ	ō	0	n
18	0	1	1	1	1	1	0	0	0		0	0	3	1	ŏ	0	ō	ō	ŏ	ŏ	ò	O	ŏ	ŏ	ŏ
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20	0	0	0	0	0	0	0	0	0	0	0	ō	o	ō		o	0	õ	ŏ	٥	ŏ	õ	ŏ	ŏ	ŏ
21	0	0	0	0	0	0	0	0	0	0	0	٥	0	• • • •	0	0	٥	J	٥	0	0	0	0	o	0
22	0	0	0	0	٥	0	0	0	0	0	0	0	o	0		o	ō	ō	ŏ	ŏ	ŏ	ŏ	ō	o	ŏ
23 24 25 26 27 28 29	0	0	0	-		•				0	0	0	0	ō	0	ō	ō	0	ŏ	ŏ	ŏ	o	ō	5	ŏ
24	5	1	3	0	0	0	- 1	4	2	0	0	0	٥	ō	0	0	0	G			ŏ	ŏ	ŏ	ŏ	ĭ
25	0	0	0	0	0	0	0	0	o	0	0	o	ō	ō		0	Š	ŭ	ŏ	0	ŏ	ŏ	ŏ	ő	ó
26	O	0	0	0	0	0	0	0		0	0	0	0	ō	0	0	ō	o	ŏ	ŏ	ŏ	ŏ	Ö	ŏ	ŏ
27	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	ŏ	ō	ŏ	o	ŏ	ŏ	ŏ	ŏ	ő	ő	ŏ
28	0	0	0	0	0	0	0	o	ō	ō	ō	ō	õ	ō	ő	Ö	č	ō	o	0	Ö	o	2	,	õ
29	8	8	3	2	1	1	1	2	2	1		1	- 7	- 7	ĭ	o	č	ő	ŏ	ŏ	ŏ	ŏ	ō	- 4	ĭ
30	4	3	1	1	1	1	0	0	ō	0	0	0	• • • •	ò	22	2	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ò	2
31	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	U	0	0	o	0	U	U	U	U
MEAN	1	1	0	0	0	٥	0	0	-1	1	0	0	1	0	1.	0	0	0	٥	0	0	0	0	1	0.4

PERCENTAGE OF DATA VALID - 95.4 PERCENTAGE OF DATA INVALID - 3.6

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

	POL	LUTANT	- s	ULPHU	R DIO	XIDE								UNITS	- 0.0	1 PAR	15/MI	LLIGN	1.						
	STA	TION -	NE	NO 7	1001	2	9 HII	LLCREST	AVE	WA	WA					MONT	н - ы	UN	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	2,1	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	27 0000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0	0000-0000	0000000000	0 0 0 0 17 0 5 0 0 0	0 0 0 0 0 0 0	00001000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	0000000	000000000	0 0 0 0 0 0	000000000	00000000	000000000	000000000	000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0
11 12 13 14 15 16 17 18 19 20	00000000000	000000040	0 0 0 0 0 0 0 0 3 3 0	000000640	000000000	000000010	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0000000000	000000000	00000000000	000000000	000000000	.000000000	0000000000	000000000	000000000	0000000000	00000000	000000000	2000000010		000000500	000000000000000000000000000000000000000	000000
21 22 23 24 25 26 27 28 29	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	000000000	0000000000	00000000	00000000	0000000	0 0 0 7 0 0 0 0	0000000	000-00	000.000.00		000-00000	000100000	000000000	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	000000000	000000000
MEAN	1	0	0	0	0	1	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	o	O	į	0.2

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.GI PARTS/MILLION

																	* .		5						
	STA	ION -	NE	NO T	1001	2	9 HIL	LCRES	T AVE	WAW	Δ					GON	TH .	JUL	80						
HOUR	1.	2	3	4	5	6	7	8	9	10	tt.	12	13	14	15	. 16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000001	0000000001	00000000	00000000	000000000000000000000000000000000000000	00000004	000000004	0003400000	20 20 00 00 00	0 0 0 4 8 1 0 0 0 0	0 0 0 0 0 0 0	000-00000	0001000000	00000000	000100000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	0000010000	00000-0000	0 0 0 0 1 0 0 0 0	000000000	100000000000000000000000000000000000000	1000000000	1000000000	0000000000	0000000000	000000000	0000000000	000000000	000000000	•	0.000400	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0000000000	000000000000000000000000000000000000000	00000	00000	0000000000	0000000000	000000000	00000000
21 22 23 24 25 26 27 29 29	00000-000	0000000000	000000000	0000000000	000000000	00000000	000000000	000000001	000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 21	000000000	000000000000000000000000000000000000000	0000000000	000000	00000000	0000000000	0000000000		0000000000	0000000000	0000000000	0000040000	0000030000	000000000000000000000000000000000000000
31	o	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	U	••••	0	0	0	U	U	U	v
MEAN	0	٥	0	0	0	0	0	٥	1	3	1	0	0	0	0	0	0	٥	0	0	Q	0	0	0	0.3

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- \$	ULPHI	JR DIO	IDE							ι	NITS	- 0.0	PAP	(TS/M	ILLIO	N						
	STA	TION .	NE	NO T	71001	29	нп	LCRE	ST AVE	WAY	MA					MONT	н -	AUG	80						
HOUR	î	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		EAN
1 2 3 4 5 6 7 8 9	000000000	040000000	020000000	0000000000	000000000	000000000	0000000000	0 0 0 0 0 0 0 13	00000093	0000000089	0 0 0 0 0 7 0 2	000000000000000000000000000000000000000	0000000000	000000000	0000000000	0 0 0 0 0 0 0 0	0000	••••	0000	0000000000	0000000000	2500	0000000000	000000000	0 0 0 0 0 1 1
11 12 13 14 15 16 17 18	000100000	0003	000300000	0000000000	0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	0000000000	000000000000000000000000000000000000000	000000000	0000000		0004000000	000000000	00000000	00000000	0		000000000	000000000	0.000000000	000000000	000000000	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	000000000	000000000	000000000	0000000000	000000000	000000000	0000000000	000000000	000000000	000000000	000000000	0000000000	000000000	000000000	000000000	0000000000	002000000	0040000000	00000000	000000000	000000000	000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	24	7	0	0	0	0	0	0	0	0	0	1	0	0	0.2

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- " " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - U OI PARTS MILLION

					NEAR CHOICE									10000011 <del>0</del> 00110											
	STA	TION	- NE	NO	71001	2	9 HI	LLCREST	AVE	WA	MA					# ON	TH -	550	80						
HOUR DAY	1	2	3	4	5	G	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 #	EAN
1 2 3 4 5 6 7 8 9 10	000000000000000000000000000000000000000	0000040000 00000	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	170000		0000060000 00000	40000 00000	00000900000 00000	0000000000 00000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000080 00000	000000000000000000000000000000000000000
16 17 18 19 20	0000	0000	0 13 0	0 15 0	0 7 0 0	0 0	0	0000	0000	0000	45 0 0	59 0 0	31 0		0 0 0	0000	00000	0 0 0	0 0 0	0	0	0000	0 0 0	0 0 0	0 6 2 0 1
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0001000100	000000000000000000000000000000000000000	00000	0000000000	000000000	000000000	000000000	•	0 0 0 0 0 0	00000	78	0 0 0 0 45 0	0 0 0 60 0	0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21000	00000	0000000000	000000000	000000000	000000000	000000000	000000000000000000000000000000000000000	0 0 0 0 0 17 1 0 0
MEAN	2	0	0	1	0	0	0	1	0	5	4	6	4	3	1	1		0	2	0	0	0	0	0	1.3

PERCENTAGE OF DATA VALID - 97.8 PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE . O.O.

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POL	LUTANT	. s	ULPH	JA DIC	XIDE								UNITS	٥.	בין וכ	275./5	ILL10	N						
	STA	TION -	NE	NO 3	71001		29 HI	LLCRES	ST AVE	WA	WA					MON	тн -	OCT	80						•
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0000000000	000000000	040000000	0000000	0 8 0 0 0 0 0 18 0 0	0 - 0 0 0 0 9 0 0	0 0 0 0 0 18 0 0	2400	000000000000000000000000000000000000000	000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	000000500	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000		000000000000000000000000000000000000000	000000000	0000000000	90000000	000000000	6000000000	0 0 0 0 13
11 12 13 14 15 16 17 18 19	0000000000	000000000000000000000000000000000000000	000000000	-000000000	000000000	1000000000	0000000000	0000010000	0000040000	0000040	0 0 16 0 4 0	:8 0 0	10	000000000000000000000000000000000000000	0000000000		000000000000000000000000000000000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000010000	000010000	0000000000	0000000000	00000	0 0 0 2 0 0 2 0
21 22 23 24 25 26 27 28 29 30	00000000000	0000000000	0000000000	0000000000	00000000000	00000000000	0000000000	0000040000	0000040000	000000000	000770000000000000000000000000000000000	0000048	43	30000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000705200	17 00 00 00 00 00 00 00 00 00 00 00 00 00	1300000005	38	6000000100	21 0 0 0 0	100000000000000000000000000000000000000	17 0 0 0 0 0 0	3 0 0 0 0 0	3 0 0 0 2 8 0 5
MEAN	0	0	0	1	1	٥	1	1	2	1	1	3	5	4	3	5	,	1	1	0	1	1	2	2	1.4

PERCENTAGE OF DATA VALID - 96.1 PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PERTS/WILLICH

	ST	ATION	· NE	NO	71001		29 HI	LLCRE	ST AVE	WA	ΔW					CON	Тн -	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	: ō	17	18	19	20	21	22	23	24	KEAN
1	2	2C	67	20	5	1	5	10	6	1	3	14	6	13	15	4 6	6	30 0	4	0	0	0	0	C	10
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5	1	2	1	1	2	0	98	36 0 0	46	50	40 0	34 0 0	23	29	0	0	0	o	0	0	0	0	0	0	15
6	0	0	0	0	0	0	0	٥	0	0	0	٥	0	0	٥	0		0	0	0		٥	0	0	0
7	0	0	0	0	0	0	o	0	٥	0	0	0	0	0	٥	0	0	٥	0	0	0	0	0	ō	0
	ŏ	0	0	0	0	0	0	0	00	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0
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11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	6	0	0	0	0	Q	0	0	C	U	U	U	U	v	U	U	u	v	0	0 9 0	0	٥
14 15 16	0 0 0	0	0	6	3	64	45	61	2	0	0	C	0	0	2	2	0	0	0	0	0	0	9	14	9
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G	C	0	0	0	0	0	0	0
17	0	0	0	58	13	18	1		- }	1	1	Ÿ	ŏ	ő	0	o	õ	0	٥	0	0	Ö	ő	ŏ	4
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19	ŏ	ŏ	ŏ	ŏ	0	0	ŏ	õ	ŏ	ō	0	ŏ	ŏ	0	ō	ō	ŏ	ŏ	č	o	ŏ	ŏ	0	ō	õ
20	ō	0	0	0	0	o	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	٥	0	0	0	000000	0	0	0	13	6	C	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	Č	o	0	0	0	0	0	٥	0
23	0	0	0	0	0	0	0	0	0	0	0	Č	00	0	00	0	č	CO	ŏ	0	0	0	0	000	0
23 24 25 26 27	ő	ŏ	ŏ	ŏ	ŏ	0 0	0	ŏ	ŏ	000	000	o	ŏ	0	ő	o	0000	ŏ	000	0	ŏ	0 0 0 0	0000000	ŏ	ŏ
26	0	ō	o	ō	ō	ō	O	17	4	ō	0	ō	0	ō	ō	0	0	ō	0	ō	ō	ō	0	٥	1
27	0	0	0	0	0	0	0	0	٥	0	0	000	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0		٥	0	0
29	0	0	0	2	25	0	30	29	30	6	12		0	0		4	6	2	2		1	1	0	0	8
30	0	0	0	0	0	٥	0	0	٥	0	U	٥	0	0	٥	0	U	0	0	0	0	0	O	o	U
MEAN	0	1	2	3	2	3	6	5	3	2	2	2	1	1	1	7	4	1	0	0	1	0	2	1	2.1

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

INTE - O OF PERTS/MILLION POLLUTANT - SULPHUR CLOXICE 29 HILLCREST AVE WAWA STATION - NE NO 71001 MONTH . DEC 80 24 MEAN 10 11 22 23 12 13 14 15 20 21 5 ····
0 0
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0 0
15 ···· 0 t 0 1 0 0 3 4 5 6 7 8 9 0 .... 0 .... 12 13 14 15 16 17 18 19 20 0 2 0 0 0 0 5 35 22 0 4 1 0 0 0 3 0 0 78 0 0 0 0 0 0 2 70 0 4 24 0 0 0 25 0 8 0 0 0 0 0 0 4 29 0 0.00000000 0 36 0 0 0 0 4 0 0000: 22 23 24 25 26 27 28 29 30 ..... 10 14 00 00 00 0 0-00000000 13 0 0 0 0 0 0 0 00-0000000 0 .... u v 2.4

PERCENTAGE OF DATA VALID . 95.6 PERCENTAGE OF DATA INVALID - 4.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT . SULPHUR DIOXIDE

UNITS . D. OI PARTS/MILLION

STATION - NE	NO 71001 29 HILLCREST	AVE WAWA		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.1	26	132
FEB	29	0.9	7	64
MAR	26	0.8	10	74
APR	28	0.7	4	27

FEB	29	0.9	7	64
MAR	26	0.8	10	74
APR	28	0.7	4	27
MAY	31	0.4	3	34
JUN	30	0.2	3	27
JUL	31	0.3	2	48
AUG	31	0.2	1	25
SEP	30	1.3	17	87
OCT	31	1.4	13	70
NOV	30	2.1	17	186
DEC	31	2.4	18	132
YEAR	359	1,1	26	186

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES GRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - NE NO 71001 29 HILLCREST AVE WAWA MONTH OO TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL JAN FEB MAR D APR MAY t JUN JUL AUG SEP OCT NOV DEC YEAR FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA VALID MIN 10 FREQUENCY DISTRIBUTION, PERCENT 50 70 90 95 ARITH MEAN 

0.0

0.0

0.0

95.8

0.0

0.7

2.8

12.8

29.0

1.1

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - NE NO 71022 SAULT COLLEGE QUEENS ST SAULT STE MARIE MONTH - JAN BO

						-								_											
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 0 1 1 0 1 0	0 0 1 1 1 0 1 0	0 0 0 1 1 0 0 0 0	0001	0 0 0 0 0 0	.000.0000	0 0 1 1 0 0 0 2 0	1 0 1 1 0 0 0 1 0	101210010	0 0 1 3 1 0 1 1	001001011	200001010	501:31010	301000512	3 0 0 0 0 1 9	000000000000000000000000000000000000000	000000702	0000000	0 0 2 1 0 12 1 0	0000	001140810	001120210	2 0 1 0 0		1 0 0 1 1 1 0 3 1 1
10 11 12 13 14 15 16 17 18 19	0 0 0 0 1 0 0 1 1 0 0	0 0 0 0 0 0 0 1 6 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 4 0	0 1 2 0 1 0 0 0 1 0	0 1 0 7 0 0 0 1 1 0	0 1 1 0 4 0 0 0 2 9 0	1 1 0 4 0 0 0 5 8 0	3 1 1 3 0 0 1 2 5 0	0 0 0 2 1 0 0 0 1 7 1	0 0 0 1 2 0 0 0 1 10 1	000000000000000000000000000000000000000	0 0 0 0 0 1 1 7 0	1 0 0 0 0 2 1 4 1	1 2 3 1 0 0 0 1 2 4 5	1 0 0 0 1 1 3 7	2200002238	37.00000134	9300000086	0 1000000000	7 0 0 1 0 0 0 0 4 1	300000000000000000000000000000000000000	200200102		0 2 1 0 1 0 0 0 0 1 5 2
21 22 23 24 25 26 27 28 29	1 0 0 0 2 1 1 0 1 0	0 0 0 1 0 0 0 1 0	6 0 0 1 2 0 0 1 0 0	2 0 0 1 1 0 0 0 0 0	2 0 0 0 1 0 0 1	000000000000000000000000000000000000000	0 0 0 1 0 2 1 1	0 0 0 1 0 1 0 2 1 2	1002010312	1 0 0 1 0 2 1 2 0 1	1 0 0 1 0 2 1 1 0 1	2 1 0 1 0 1 1 0 1	1 0 0 2 1 1 0 1 0 1	1 0 2 1 0 1 0	0 2 0 2 2 0 1 0 1	0 4 0 0 0 0 1 0 0	0 3 0 1 0 0 0 3 0 0	0 1 0 0 1	0 1 0 4 0 0 0 1 0 0	1005000001	1 0 5 0 0 1 1 0 1	0 0 0 6 0 1 1 1 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1 0 1 1 0 1
31 MEAN	0	0	1	0	0	í í	1	1	1	3	1	2	1	1	1 2	0	1	1	2	0 2	,	1	10.	••••	1.0

PERCENTAGE OF DATA VALID . 95.7

PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID CATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION . NE NO 71022 SAULT COLLEGE QUEENS ST SAULT STE MARIE MONTH - FEB BO HOUR 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 MEAN 3 20 1 2 3 4 5 6 7 0 3 :::: 0 0253 9 5 3 1 :::: 2 4 3 4 2 ò 1 .... 11 12 13 14 15 16 17 18 19 20 0 0 0100700000 -00-0-0000 220021 0004000111 10000 6 .... 0 .... 6 .... 0 .... 501221413 0 20 024 0 0001 10000 10000 10 2 0000 0000 \*\*\*\* 1 6 0 .... 1 .... 21 22 23 24 25 26 27 28 29 0 0 0 0 0 0 0280034 0220042 02250 226011 8 0 800 500 9 0 0 0 2 .... 1 1 2 2 1 MEAN 1 1 2 2 2 1 1 1 1 1 .... 1 1 1 1 1 1.3

PERCENTAGE OF DATA VALID - 95.8

PERCENTAGE OF DATA INVALID - 4.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES ERANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- NE	NO '	1022	5	SAULT	COLLE	GE Q	JEENS	ST S	AULT S	TE 1.1	ARIE		VON	Tн · :	1148	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	1 1 0 2 1	1 1 4 1 1 0	0 1 2 4 0 1 0	0 1 2 5 0 2 1	3 2 0 1	1 1 2 3 0 0	2 1 3 2 0 0 1	3 1 6 2 0 0 1	4 1 5 3 0 3 1	2 0 4 7 0 2 1	2 0 3 7 1 1 0	- DAT	A UNA	O O O O AVAILA	BLE		0 0 1 4 3 0 -	5 20.	0 0 1 2 0 0 0	000110	2 0 0 1 3 0 -	3 0 0 1 8 0 .	0 1 6 0 .		3 1 1
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31												- DA:	A UNA	VALLA	are.										
MEAN	1	1	1	2	1	1	1	2	2	2	2	2	1	4	1	•	1	1	1	0	1	2	2	••••	1.3

PERCENTAGE OF DATA VALID - 20.2

PERCENTAGE OF DATA INVALID - U.8

PERCENTAGE OF DATA UNAVAILABLE - 79.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1990

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE	NO 71022	SAULT COLLEGE	QUEENS ST	SAULT STE	MARIE
MONTH	NO OF	DAYS	AVERAGE	CONCENT	24-1

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.0	5	13
FEB	29	1.3	4	11
MAR	6	1.3	3	8
YEAR	66	1.1	5	13

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE	NO 71022	SAULT COLLEGE	QUEENS ST SAULT S	TE MARIE	
MONTH OO	TO 05 06 TO	0 10 11 TO 15	16 TO 20 21 TO 2	5 26 TO 39 -0 TO	49 50 SCVER TOTAL
JAN	684	24 4	0	0 0	0 0 7:2
FEB	644	22 1	o	0 0	0 0 667
MAR	144	6 0	o	0 0	O C 150
YEAR	1472	52 5	o	0 0	0 0 1529

FREQUENCY DISTRIBUTION BY PERCENTILES

HEQUENCY	PERCENT OF DATA	TON ST	PERCENTICES		FREQUENCY		TRATIONS					ARITH
	VALID	MIN	10	30	50	70	èu	05	QQ	99	MAY	WFAN
	70.0	0	0.0	0.0	0.2	0.8	2.5	4.2	7.0	7.9	13	1.1

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.D1 PARTS/MILLION MONTH . MAY LAND REG OFFICE QUEEN ST. SAULT STE MARIE STATION - NE NO 71049 16 17 18 20 21 22 23 24 MEAN 10 1.1 12 14 15 HOUR DAY - DATA UNAVAILABLE
- DATA UNAVAILABLE
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DATA UNAVAILABLE
CATA UNAVAILABLE
DATA UNAVAILABLE 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 0 00000-0000000010 00000000000 00000000-0-000000-00--0000-0 1110010000 1 ···· 0 ··· 1 ··· 00000-00 1011001000 .0000000 00-000000 000000000 000000001 000000000 000000000 000000000 -00000000 012000000 0-8000000 001001001 0-0000000 03000-0000 0 0 0 0 ٥ . . . . · J 0 0 0 ŭ 0 0 0 0 0 U U U 31 0 0 0 0 0 0 0 0 U v 0 0 0 0 0 0 0 .... 0.2 0 0 0 0 MEAN ٥ 0 0 0 ٥ 0

PERCENTAGE OF DATA VALID - 32.4

PERCENTAGE OF DATA INVALID . 1.9

PERCENTAGE OF DATA UNAVAILABLE - 65.7

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

	ST	ATION	- NE	NO	71049		LAND R	EG (	OFFICE	QUEEN	ST	SAULT	STE	MARIE		MON	TH	JUN	80						
HOUR		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	٥	٥	0	0	0	٥	o	1	2	2	,	,	0	o	٥	0	o		0
2	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	o	a	C	0	ō	ō	ō	o	0		0
3	0	0	1	0	0	0	1	0	0	1	0	0	0	ō	0	0	O	ā	ā	ŏ	Ť	ī	- 7		ō
4	0	0	0	0	0	0	0		2	- 1	1	1	ō	ĭ	ĭ	0	o	ĭ	ŏ	1	i i	0			ĭ
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20	ŏ	ŏ	0	0		0			0		0	0	0	0	٥	0	0	٥	0	٥	0	0	- 6	• • • •	0
20	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	3	1	• • • •	0
21	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	1	0	0	0		0
22	0	0	0	0	0	0	ō	o	o	ō	0	ā	ō	ò	1	o	ō	ò	ō	o	ŏ	ŏ			ō
23	0	0	0	0	0	0	0	0	ō	0	0	ō	0	ō	o	0	٥	ŏ	ŏ	ŏ	õ	ŏ	0		0
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30		v	0	0	0	U	U	U	0	U	0	0	0	0	0	o	J	0	0	0	1	0	0	U	~
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 95.8 PERCENTAGE OF DATA INVALID - 4.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- " .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUTAN	T - 5	ULPH	UR DI	OXIDE								UNITS	- 0.0	DI PAR	RTS/MI	LL101	N						
	51	MOITA	- NE	NO	71049	Ŀ	LAND	REG C	FFICE	QUEER	1 ST.	SAUL	STE	MARIE		XON T	iH - 1	IUL	80						
DAY	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
12345678910 112345678910 1123134 1567890	0 0	000000000000000000000000000000000000000	0000000000	0000000000 00000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000000000	000000000000000	1 0 0 0 0 1 0 0 0 0 0 0 0	010000000000000000000000000000000000000	000000000000000000000000000000000000000	:	DATA DATA DATA	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	· ·	100000000	000000000000000000000000000000000000000	200000000000000000000000000000000000000	100000000000000000000000000000000000000	000000000000000000000000000000000000000	001000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	100000000000000000000000000000000000000	
21 22 23 24 25 26 27 28 29	0000000	000000000000000000000000000000000000000	000000	00000000	0000000	00000000	0000000		0000000	0 0 0 0 0 1	0000000	0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	I NV & L I I	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	00000000	00000000	0 0 0 0 0 0	00000000	0 0 0 0 0 1	0 0 0 0 0 0 1	00000000	000000000000000000000000000000000000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0 0.1

PERCENTAGE OF DATA VALID - 76.1

PERCENTAGE OF DATA INVALID - 23.8

PERCENTAGE OF DATA UNAVAILABLE . 0.1

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- NE	NO	71049	9	LAND	REG OF	FICE	QUEEN	ST	SAULT	STE	MARIE		MONT	н - 1	UG	80						
- HOUR	Ī	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24	MEAN
1 2 3 4	0 0 0	0	0 0 0 0	00000	0000	00000	0 0 0	0000	0000	0	00000	0 0 0 0	00000	0 0 0 0	0000	0 0	00000	0000	0 0 0 0	0000	0 0 0	0000	0 0 0	0 0 0	0 0 0
6 7 8 9 10	0 0 0	0 0 0	00000	00000	0000	0000	00000	0000	0 0	0000	00000	0000	0000	0 0 0	00000	0 0 0	00000	0000	0000	0000	0 0 0 0	0 0 0	0000	0000	0000
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	000000000	000000000	00000000	000000000000000000000000000000000000000	00000000000	0000000000	00000000	0000000000	0000000000	0000000000	000000000	0 000000000	0.0000000	000000000	030000000	0.00000000	000000000	0.300000000	000000000	0000000000	000000000	000000000
21 22 23 24 25 26 27 28 29 30	00000-0000	0000000000	000000000	0000000000	000000000	000000000	000000000	000000000	000000100	0 0 0 0 0 0 1 0 0	0000000000	0 0 0 0 0 0 1 0 0	0000000000	000000000	000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000	000000000	0000000000	000000000	0000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL															1 PAR	TS/MI	LLION	ı						
	STA	TION .	NE	NO	71049		LAND	REG OF	FICE	QUEEN	ST.	SAULT	ŞTE	MARIE		MONT	н - s	EP	80						
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
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11 12 13 14 15 16 17 18 19	0 0 0 1 1 0 3 0	0 0 0 0 1 1 0 0 1 0	000000-000	0 0 0 0 0 1 1 0 0 0	000000-000	0 0 0 0 0 0 0 0 0	0000001000	1000001	0 1 0 0 0 1 0 0 1	000000000000000000000000000000000000000	0100001	0 0 0 0 0 1	01000000	0000000	0000100001	0000111001	000000000000000000000000000000000000000	0000100000	000000000	0000000000	0000000000	000000100	0000000000	000000000000000000000000000000000000000	00000-000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	200000000000000000000000000000000000000	00000	200000000	***************************************	200000000	2000000000	2000000000	200000000	000000000000000000000000000000000000000	2000000000	001000	000000000000000000000000000000000000000	00000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	100000000000000000000000000000000000000	20000000	3 1 0 0 0 0 0 0 0 0 0 1 0	3200010010	5200010010	1 2 0 0 0 1 0 0 1 0	2 1 0 0 0 1 0 0 1 0	10000000	2000000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O CT PARTS MILLION

	STA	TION	· NE	NO	71049		LAND	REG O	FFICE	QUEEN	ST	SAULT	STE	MARIE		SON	TH - (	) C T	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	0 0 0 0 0 0 1 0	000000000000000000000000000000000000000	00000000	0000000-00	0 1 0 0 0 0 1 1 0	0 1 0 0 0 0 0 1 2 0	0 1 0 0 0 0 1 1 0	0 0 0 0 0 0 1 1 0	000000000	000000000	000000000	0000000000	0000000000	000000000	-000000000	M 200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1000010000	N00000000	300000000	4000000000	000000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	000000000	000000000	00000000	000000000	000000000000000000000000000000000000000	250000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 1	000000000000000000000000000000000000000	000000000	0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 1 1 0	0 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000110	3303000-00	000000000000000000000000000000000000000	00000000	000000000	000000000	0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000	1000000000	000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 2 0 1 2 1 0	0000000	0 0 0 0 1 0 1 0	0 0 0 1 0 2 0 0 0	000000000000000000000000000000000000000	0 0 0 1 1 0 0 0 0	1000110000	1000210000	2000310000	2000320010	1 0 0 0 0 0	0000320000	0000140000	000000000000000000000000000000000000000	00000	0 0 0 1 1 0 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	3	4	3	0	0	1 0	0	0	1	0	0	0		0.2

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS JNAVAILABLE
- 3. " ... INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.61 PARTS/MILLION STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE HOUR 10 11 12 13 15 16 17 18 19 20 21 22 23 24 MEAN 1234567890 1234567890 12224567890 22234567890 -0000000 0000000--0 00000-0040 0001 1 0 0 1 0 0010 00-0 0000 00000000000 00000-0000 0000000000 0000000000 000000000 000000000 000000010 000000000 000000000 000000000 000000-00 0001 0000000000 0000000000 0000000000 00000000000 -000000000 0000000000 0000000000 0000000000 0000000000 00-0000000 0000000000 0000000000 0000000000 0000000000 0000000000 0000000000 00000000 0000000000 000000000 0000000000 MEAN 0 0 v. 2

PERCENTAGE OF DATA VALID - 99.0

PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - O OI PARTS . MILLION LAND REG OFFICE QUEEN ST. SAULT STE MARIE MONTH - DEC 80 STATION - NE NO 71049 24 MEAN 9 10 11 12 13 14 15 16 17 19 20 21 22 23 7 8 HOUR 4 5 3 6 001 0000000000 000000000 000000000 00:000001 00-00000-0 0000000000 0000000000 1234567890 0000000004 000000000 000000000 00000000 000000000 000000000 0-0000000 10000110 00000000 000 000000000 000000000 0000000000 0000000100 0000000-00 0000000000 00000000000 000000000 000000000 0000000001 0000000-00 0000-000000 0000000000 0000000-00 0000000000 000000000 11 12 13 14 15 16 17 18 19 0000000000 0000000000 0000000000 0-00000000 0-00000000 00000000 1000 0 0000100102 0000000000 0000000000 0010000000 00 0 0000000000 21 22 23 24 25 26 27 28 29 30 00 0 0000000000 0000000000 000000000 0000000000 0010000000 -0-0000000 00-0000000 0010000000 0010000000 00000000 000-000 10000000 -00000000 0 0 c ÷ 0 0 0 0 0 0 o 0 0 31 0 0 0 0 0 0 0 0 0.1 0 0 O 0

PERCENTAGE OF DATA VALID - 99.9

o 0

MEAN

PERCENTAGE OF DATA INVALID - 0.1

0 0 ٥ 0 0 ٥

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE

o 0 0

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1940

31

217

POLLUTANT - SULPHUR DIOXIDE

DEC

YEAR

UNITS - 0.01 PARTS/MILLION

LAND REG OFFICE QUEEN ST. SAULT STE MARIE STATION - NE NO 71049 AVERAGE CONCENT 24-HOUR MAXIMUM MAXIMUM READING MONTH NO OF DAYS DATA UNAVAILABLE JAN DATA UNAVAILABLE FEB CATA UNAVAILABLE MAR DATA UNAVAILABLE APR 8 0.2 MAY 10 2 0.1 JUN 0.1 24 JUL 0.0 0 AUG 31 SEP 30 0.2 OCT 31 0.2 NOV 30 0.2

> 0.1 0.1

# ONTARIO MINISTRY OF THE ENVIRONMENT . ALR RESORCES ERANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

STATION - NE NO 71049 LAND REG OFFICE QUEEN ST. SAULT STE MARIE

MONTH 00 TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL

COMMUNICIPAL SE			A. S. C. C. S. S. S. S. S. S. S. S. S. S. S. S. S.						30 40164	
JAN		DATA	UNAVAILABLE							
FEB		DATA	UNAVAILABLE							
MAR		DATA	UNAVAILABLE							
APR		DATA	UNAVAILABLE							
MAY	240		1	0	0	0	0	0	0	241
JUN	690		0	0	o	٥	0	0	0	690
JUL	566		0	0	О	٥	0	٥	0	566
AUG	743		0	٥	0	0	0	0	٥	743
SEP	712		0	0	0	3	0	2	٥	712
OCT	741		0	0	0	0	0	0	0	741
NOV	713		0	٥	0	0	0	٥	0	713
DEC	743		0	0	0	0	0	0	٥	743

5148 1 0 0 0 0 0

YEAR

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID MIN 10 CONCENTRATIONS
FREQUENCY CISTRIBUTION, PERCENT
50 70 90 95 30 98 99 87.6 0.0 0.0 0.0 0.0 31.1 1.7 0.1

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIC	XIDE							1	UNITS	· o.	01 PA	RTS/M	ILLIO	N						
	STA	TION -	NE	NO	71057		MICHIE	PICOTEN	AV	LOT	38.10	WN OF	MISS	ON		NON'	тн - ,	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 4	EAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0000007	0000009	000-000005	0 0 0 1 0 0 0 6 0	00000-0004	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	000500010	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1700000040	000000000	0700200000	0330300000	0040-00000	000000000	004000000	300000000000000000000000000000000000000	00000000	003000000	000000000	00200000	20000012
12 13 14 15 16 17 18 19	000000000	000000000	000000000	000000000	0000000000	0000000000	00000000	000000004	000000000	0000000	000000000000000000000000000000000000000	0000000000	0000000000	000000000	0000000000	000000400	000000000	0000000800	0000000500	000000000000000000000000000000000000000	000000000	000000100	000000000	000000000	0 0 0 0 0 2 0 1
21 22 23 24 25 26 27 28 29	2003010000	40003070000	2 0 0 9 0 14 0 0 0 0	0 0 0 15 0 0 0 0	0004090000	0 0 1 2 0 7 0 0 0 0	0 4 1 0 4 0 0 0 0	0 0 10 1	000000000	0 0 5 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 8 0 0 0 0	0 0 2 1 15 31 0	0 0 0 0 20 17 0	0 0 0 0 5 8 0 0 0 0	0 1 0 0 0 0 1	0500230003	00000	0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	070000000000000000000000000000000000000	0 0 0 0 4 0 0 1 0	0 4 1 0 1 7 0 0 1 0	0 15 2 0 3 0 0 0 0 0 0 0	0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 2 3 6 0 0 0 0
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0 2	1	0	34 2	38 2	14	1	0	0	0	0	0	υ 0	4 1.0

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . D. O. PARIS, MILLION

	-00	CO I MIT I		OLFF	101 010																				
	STA	TION -	NE	NO	71057		MICHIF	COTEN	AV	LOT	38.10	NN OF	MISS	ION		CONT	<b>H</b> -	FEE	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	: 3	1.7	18	19	20	21	22	23	24	WETH
1 2 3 4 5 6 7	00000000	00000000	00000000	00000000	0 0 0 0 0	0000100	0 0 0 0 0 0 0	0 0 0 0 1 0 0	0 0 0 0 1 0 0	00-00000	00,0000	0000021	0 23 3 0 0 0 8	64	32 71 27 0 0 0	26 25 2 0 0 0 0	310000000	30000000	30200000	2000000	800000	17 0 0 0 0 0	10100000	000000	5 0 0 0
10	0	2	2	1 2	1	1	1	0	0	0	ò	0	0	ò	0	0	O	0	0	0	0	0	ò	ò	ò
11 12 13 14 15 16 17 18 19	00000	0000090000	0000010000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 49 1 0 0 0	0 0 0 0 70 1 0 0 0	861000	0 0 1 0 76 0 0	0 0 1 0 24 0 0	0 0 0 3 3 5 5 0 0 0	0004440000	0007110000	3000N-00000	000000000000000000000000000000000000000	0000-00000	000000000	0000300000	0000000000	0000100000	0000100000	000000000000000000000000000000000000000	000000000	19 00 00
21 22 23 24 25 26 27 28 29	0 0 0 0 0	00000	0 0 0 0 0	000000	0000000	000000	0 0 0 0 0	0 0 0 0 0 6	000000	00000	0 0 0 0 0 28		O I O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 0 1	0 0 4 0 1	0 0 0 46 0	0 0 45	0 1 0 18 0	0 3 0 3 12 0	0 4 0 0 8 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 6 0 4
MEAN	0	٥	0	1	Ĭ.	•	2	3	4	3	2	3	2	5	5	3	2	2	2	2	1	1	0	0	2.0

PERCENTAGE OF DATA VALID - 92.0 PERCENTAGE OF DATA INVALID - 8.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	. s	ULPHU	R DIO	KIDE							,	NITS	- 0.0	)1 PAF	RTS/MI	LLIO	4						
	STAT	10N -	NE	NO 7	1057	м	I CHI P	COTEN	AV	LOT	38. TOW	N OF	MISS	ON		MONT	H - N	AR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5		~								.20		- DA	TA UNI DATA DATA DATA	NVALI NVALI NVALI NVALI NVALI	BLE - D - D - D -		_			_					
7 8 9 10	0	0000	0000	0	0 0 0	0	0	0	0000	000	0 0 0	3 0 0	0000	0	0	0	0000	0	0000	0000	0 0 0	000	0	0	0
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000	0000000000	000000000	0 0 0 0 0 0 0 0 0	000000000	010000000	0 0 0 0 0 0 0 0	000000000	00000000	010090000	0 1 5 0 0 0 0 0 0	0000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	25	0000
21 22 23 24 25 26 27 28 29 30	000000000	0000000000	4 0 0 0 0 0 0 0 0	100000000	000000000	200000000	100000000	000000000	03200000000	0 35 0 0 0 0	17 7 0 0 0 0	24 20 00 00 00 00 40	0 0 0 0 0 0 0 14 0	2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	000000000000000000000000000000000000000	0000000000	260	000000000	0000000000	000000000	000000000	0000000000	000000000	3 0 0 0 0 0 0 0 0 0 1 1 0
31 MEAN	0	0	0	0	0	0	0	0	1	2	2	1	1	2	2	3	3	1	o	0	0	0	ů	1	0.8

PERCENTAGE OF DATA VALID - 80.6 PERCENTAGE OF DATA INVALID - 12.9

PERCENTAGE OF DATA UNAVAILABLE - 6.5

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLIAN

	STA	TION	· NE	NO	71057	6	I CHI P	COTEN	AV	LOT	38.10	IN OF	MISSI	ON		NON'	ін	PH	во						
HOUR	1	3	3	4	5	6	7	8	9	10	11	12	1.3	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0001000000	00000000	00000000	00000000	000000000	000000000	000000000	001000000	001000000	000000000	010000000	000000000	300000001	032000000	07-3000004	011000000	0010000000	00000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10 11 12 13 14 15 16 17 18 19	6 0 22 0 0 0 0 0 0 8	0 3 0 0 0 0 6 0 3	13 0 0 0 0 0 0 3 0 2	0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2:03000000	6040000000	0 3 0 0 0 0 0 0 0 0	0 4000000000	0 0030000000	0 100000000	200080101	0 0 13 0 0 0 11 0 0	102005050	0 1 0 0 0 2 0 0 0 0	4 0000000000	(000000000	0 0000900000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	0000900000	0 0 0 15 0 0	0 0 0 0 0 0 0 0 0 1		3 0 2 1 0 1 0 1
21 22 23 24 25 26 27 28 29 30	300500000	2200000	7 0 0 0 0 0 0 0 0	80000000000	600102000	5001010200	300000000000000000000000000000000000000	30000000	2000420000	0000500001	0	00.00000-	000000000000000000000000000000000000000	000000000000000000000000000000000000000	37 02 00 00 0	19 00 00 00 00 00	0000100000	0000500000	0 0 0 0 0 0 0	0 0 1 0 39 42 0 0	0 6 0 26 31 0	0 26 0 36 1 0	0 40 6 0 0	0	840000
MEAN	2	2	1	1	1	1	0	1	0	1	2		1	1	2	1	1	٥	1	3	3	4	2	1	1 . 3

PERCENTAGE OF DATA VALID - 98.3 PERCENTAGE OF DATA INVALID - 1.7 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- s	ULPH	JR D10)	IDE								INITS	- 0.0	1 PAR	TS/MI	LLION	ı							
	STAT	TION -	NE	NO 1	71057	N	ICHIP	ICOTEN	AV	LOT	38 . TOW	IN OF	MISS	ON		MONT	H - K	ΔY	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	KEAN	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16	250000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000006000 00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000	000000000000000000000000000000000000000	0000009000 00000008	000000000000000000000000000000000000000	000000000000000000000000000000000000000	100000000000000000000000000000000000000	110000000000000000000000000000000000000	0-00080000 00000000	0000040000 00000000	25 00 00 00 00 00 00 00 00 00 00 00 00 00	000000000000000000000000000000000000000	0000000000 00000000	000000000000000000000000000000000000000	0000050000 00000000	0000080000 008000000	000070000000000000000000000000000000000		000004400000110000110	
20	0	0	.0	0	0	0	0	0	ò	0	o	0	0	0	0	0	G	0	0	0	0	0	ŏ	ŏ	ŏ	
21 22 23 24 25 26 27 28 29			00000000	000000000	0000000000	000000000	0000000000	0 0 0 0 0 0 0	000000000000000000000000000000000000000	000100000	000000000	000000000000000000000000000000000000000	00.000000	000		0000000000	000000000	0000000000	000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000		000000000	
31	•	0	0	0	c .	٥	0	٥	٥	0	0	0	7	0	18	19	6	0	0	٥	0	0	0	0	0.4	
MEAN	,	0	0	0	1	0	0	٥	0	. 1	U	O	U		,			U	•	•	2.00			- 3		

PERCENTAGE OF DATA VALID - 95.3 PERCENTAGE OF DATA INVALID - 4.2

PERCENTAGE OF DATA UNAVAILABLE - 0.5

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 FARTS MILLION

	PUL	LUIAN		ULPH	OK DIO	AIDE							,	11113	0.1											
	STA	TION	· NE	NO	71057	1	MICHIP	LCOTEN	ΔV	LOT	38.10	WN OF	M155	ON		VON	тн - ,	JUN	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	1.3	14	15	نا	1.7	18	19	20	21	2.2	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	C	0	0	0		• • • •	٥	
9	ŏ	o	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0		0	
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4	ō	ō	ŏ	ō	ō	ō	0	0	5	5	3	1	0		1	ð	0	0	0	0	0	0			1	
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21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	••••		
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24	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	0,	0	0	0	0	****	0	
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29	ō	ō	ō	ō	o	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	****	0	
30	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	O	0	0	0	0	0	٥		0	
MEAN	0	0	0	1	0	٥	0	0	0	0	0	o	1	0	1	1	2	2	2	0	1	0	1	30	0.6	

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 4.0 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
  - 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	UTANT	· S	ULPH	UR DIOX	ICE							U	NITS	. 0.0	1 PAF	PTS/M	LLIO	4							
	STA	110N -	NE	NO	71057		MICHIP	COTEN	AV	LOT	38. 10	N OF	MISSI	ON		NON	тн - у	JUL	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	í
1 2 3 4 5 6 7 8 9	00000000	000000000000000000000000000000000000000	00000000	0000000001	0 0 0 0 0 0 0 0	000000000	0000000000	0 0 1 5 0 0 0	000000000	000280000	000000000	0001000000	00000000	0000000000	000-000000	0001000000	000-00000	00000	0 0 0 0 0 0 0	0000000000	0000000000	0000000000	0000000			0 0 0 1 1 0 0 0 0 1
11 12 13 14 15 16 17 18 19	000000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0	000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	1000	300000000000000000000000000000000000000	600001000	000000000000000000000000000000000000000	800000000	000000000	0000000000	000000000	000000000	000000000	0000000000	000000000	000000000	0000000000	0000		100000000
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	000000000	000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 3 0 0 0	00000000000	00000-000	0 0 0 0 0 1 0 0 0	00000000	00000000000	000014000	0000014000	0000	0000112000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000			00000-000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c	0	0	ა ა	1	0	0	0	0	0		0

PERCENTAGE OF DATA VALID - 97.6 PERCENTAGE OF DATA INVALID - 2.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES SRATICH

POLLUTANT - SULPHUR DIOXIDE

UNITS . 0.01 FARTS, MILLION

	STA	TION .	NE	NO	71057		MICHI	PICOT	EN AV	LOT	38.10	AN CF	MISS	ON		NON!	tH .	166	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	PEAN
1 2 3 4 5 6 7 8 9	000000000	000000000	000000000	000000000	00000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 1 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0,000000000	0000000000	0000000000	0000000000	0000000000	000000000000	000000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	00000-0000	000000000	0000000000	000000000	0 0 0 0 0 0	0 0 0 1 2 1 0 0 0	0001100000	000000000	10000	0 0 0 32 0 0	0 0 0 37 0 0	20000	100000	0000000000	0000400000	0000000000	0000000000	0006000000	30	0 0 0 0 0 0 0 0 0	00000000000	0000100000	0000000000		60000
21 22 23 24 25 26 27 28 29	0000000000	0000000000	000000000	0000000000	000000000	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000-000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	00000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	3 1	1	2 0	0	0	0	0	0	0	0	0	0	0	0	0 0.3

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	· s	ULPHL	R DIO	AIDE							į,	INITS	- 0.	01 PAF	RTS/MI	LLIC	N							
	STA	TION -	NE	NO 7	1057		I CH I P	LCOTEN	AV	LOT	38.10	NN OF	MISS	ON		MONT	H - S	EP	80							
HOUR DAY	Ť	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN	
1 2 3 4 5 6 7 8 9	000000000	000000000000000000000000000000000000000	0000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	0000000000	0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000	000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0	0000000000	000000000	00000000	
11 12 13 14 15 16 17 18 19	000000100	000000600	000000000000000000000000000000000000000	0000000000	00 00000 - 00	000000000	000000000	••••••	00000:0000	000000000	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000	00000000	0 0 0 0 0 0 0 0 0 9	0100000000		0 1 3 0 0 0 0 0 0 0 0 0	010000000	0100000400	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0000	
21 22 23 24 25 26 27 28 29	00007000	0000070000	000000000000000000000000000000000000000	000000000	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0000000000	000000000	0000080000	000000000000000000000000000000000000000	0000000000	24 0000	000000000000000000000000000000000000000	0000040000	00000000	000000000	0000000000	000000000	000000000	0000000000	0000500000	00000000	510000		0000	
MEAN	•	0	^	0	0	^	٥	0		0			1		- 65		u	11	0	0	0		2	٥	0.4	

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGKINE MONTH - OCT MICHIPICOTEN AV LOT 38. TOWN OF MISSION STATION . NE NO 71057 24 MEAN HOUR 1 2 3 4 5 6 7 8 9 10 -00000000 0000000: 27 0 0 2 2 0 1 0 0 0 0 33 0 0 0 0 0 0 0 0 0 24 0000 12 13 14 15 16 17 18 19 20 20000-0000 10000-0000 00-22 23 24 25 26 27 28 29 30 0000-0-0000-0 00-0-0000 0000-00000 0000-00000 o C

PERCENTAGE OF DATA VALID - 99.3

MEAN

0 0

PERCENTAGE OF DATA INVALID - 0.7

0 0 0 0 0 0

0 1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0 0

Ş

0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

0 2

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

0 0 0

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MICHIPICOTEN AV LOT 38. TOWN OF MISSION NONTH - NOV STATION - NE NO 71057 24 MEAN HOUR 00+ 0 1 0 0 0 0 0 17 1 1 0-00000000 0-00008-00 ... 0 0 0 35 o 57 00 00 0 0 0 37 0 0 0 12 13 14 15 16 17 18 19 20 0000-00000 +0000000000 22 23 24 25 26 27 28 29 30 71 0 0 0 2 0 0 0000-0000 300-000000 0 20 0 0 0 0 1.2 o MEAN 

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID . 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0 01 PARTS/MILLION

	STA	TION	- NE	NO	71057		MICHIP	ICOTEN	4 AV	LOT	38.10	IN UF	¥155	ON		1:25	TH : (	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	000000000	000000000	0	3.00000000	3 0 0 0 0 0 0	5 0 0 0 0 0 0 5	600000005	500000000	500000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000	000000000000000000000000000000000000000	00000000	00.000000-	000000001	00000000	000000001	000000000	0000000001	00000000	000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19 20	0 7 1 0 12 0 0 0 0 2	32 0 21 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 17 0 0 0 0 0 0 0 2	0 20 0 0 0 0	0080000101	0 0 4 0 0 0 0 1 0 0	3 0 0 0 1 0 0 0 0	5 0 2 0 0 2 0 1 0 0	9 0 2 0 0 2 0 3 0 0	13 0 0 0 0 2 0 3 0	0000000000	00000000000	400000000000000000000000000000000000000		00000	0000-0000	000000000	0000010000	000000000	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	305521000
21 22 23 24 25 26 27 28 29 30	0 0 1 1 0 0 0	0011001100	0 0 3 1 0 0 0	0 0 4 2 0 0 1 1 0 0	0 1 0 3 0 0 1 1 0 0 0	0004001100	0 0 0 5 0 0 1 1 0 0	1 0 0 4 0 0 1 1 0 0	1001001100	1 0 0 0 0 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000001120	00440001100	0 0 21 0 0 0 0	15 3001	3 0 0 0 1 1 0 0	0 1 2 0 0 0 1 1 0 0	0 1 1 0 0 0 1 1 0 0	0100001100	0 1 0 0 0 0 1 1 0 0	0 1 1 0 0 0 1 1 0 0	0 1 2 0 0 0 1 1 0 0	0 1 3 0 0 1 1 1 0 0	0 1 1 7 0 0 0 1 1	0 0 0 1 1 0 0
31 MEAN	1	2	,	1	1	1	0	1	1	1	2	2	2	1	1	0	0	0	0	0	0	0	0	1	0.9

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION - NE N	O 71057 MICHIPICOTI	EN AV LOT 38. TOWN OF MISS	SION	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.0	6	38
FEB	27	2.0	19	86
MAR	25	0.8	11	83
APR	30	1.3	8	42
MAY	31	0.4	4	25
JUN	30	0.6	11	42
JUL	31	C. 2	•	9
AUG	31	0.3	6	37
SEP	30	0.4	.4	51
ост	31	0.8	12	59
NOV	30	1,2	Ťī	71
DEC	31	0.9	7	44
YEAR	358	0.8	19	86

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

STATION - NE	NO 7105	7 MICH	IPICOTEN A	AV LOT 38.	TOWN OF MI	SSION			
MONTH O	0 10 05	06 TO 10	11 TO 15	15 TO 20	21 10 25	26 10 39	-0 10 41	50 AOVER	TOTAL
MAL	704	18	11	5	0	.3	e	0	741
FEB	603	10	2	3	4	8	٦	6	640
MAR	586	2	2	3	2	4	1	2	600
APR	664	17	7	7	5	6	2	0	7C8
MAY	692	10	2	3	2	0	o	O	709
JUN	676	2	5	0	2	5		0	691
JUL	720	6	0	0	0	0	0	0	726
AUG	729	4	3	2	0	3	٥	0	741
SEP	705	6	2	2	1	1	0	1	718
oct	721	2	4	3	3	5	O	1	739
NOV	682	9	6	9	1	4	٥	4	715
DEC	709	9	4	7	3	1	1	0	734
YEAR	8191	95	48	42	23	40	9	14	8462

 PERCENT					CONCENT	TRATIONS					
OF DATA				FREQUEN	Y DISTR						ARITH
VALID	WIM	10	30	50	70	90	95	98	99	MAX	MEAN
06.3	•	0.0	0.0	• •	0.0		2.2	10 0	20.2	o.e	

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR 010	XIDE								UNITS	- 0.0	I PAR	RTS/MI	LLION							
	STA	TION -	ASC	NO.	71058		SIR J	AMES	DUNN	PUBLIC	SCHO	OL.	MVM7			FONT	H - U	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	00000000	000000000	000000007	0 0 0 0 0 0 0 17	000000000000000000000000000000000000000	000100006	0001000004	000000000000000000000000000000000000000	0 0 0 7 0 0 0 5 11 1	0 0 0 0 3 5 2	0000000	0 0 0 0 0 0 1	0002000070	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000	000000000000000000000000000000000000000	0070000080	00300000000	0 0 0 0 0 196 0	001000000	0010000000	000000000000000000000000000000000000000	0 0 0 0 0 52 0	0 0 2 1 0 0 0 0 17
11 12 13 14 15 16 17 18 19	51000000000	0 0 0 0 0 0 0 3 4	0 82 0 0 0 0 0 7 5	0 88 0 0 0 0 0 0 0 8 1	0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 3 0 0 1 0 0 0 0 1	070000000000000000000000000000000000000	6400000011	0	0 3 6 0 0 0 0 8 2	060000000000000000000000000000000000000	0 71 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 18 0 0 0 0 0	0000000000	000000000	000000000000000000000000000000000000000	030000040	05000000	0 0 0 0 4 22	080000008	0400000000	0100000000	00000000	0 24 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	100000	1 0 0 0 2 13 0 0 0	100000	000000000000000000000000000000000000000	0000000	8000	3 0 4 0 1 0 0 3	2000221100050	0 0 0	000000000000000000000000000000000000000	1 0 0 0 36 0	1 0 0 0 0 43 0 0	0 0 13 0 27 23 0 0	0 3 0 18 12 0	1000080000	1000050000	00000+0000	0000040000	00000000	0010000000	000000000	002000000	000000000	000000000000000000000000000000000000000	1 0 1 0 2 8 0 0
31 MEAN	0 2	0	0	0 4	0	0	4	3	6 2	4	3	0 4	3	2	1	0	0	1	2	0 7	3	0	0	ت 2	; 2.2

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

.. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.O. PARTS, MILLION

	STA	TION	· AS	C NO	71058		SIR JAN	AE S	DUNN	PUBLIC	SCHOO	L.	MAWA			NON	тн -	FEB	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000004	000000000	00000000	0 0 0 0 0 0 0 2 1	0 0 0 0 0 0 1	000000000	0000000000	4000232102	334300	2 0 0 3 1 2 2 1 0 0	000000000	-000000000	000000000	030000000	0 0 0 0 0 0 0 0 0 0	0 B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	0000000010	0000004040	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000
11 12 13 14 15 16 17 18 19	00000000000	000000000000000000000000000000000000000	000000000	000000000000000000000000000000000000000	0	000000000	000000000000000000000000000000000000000	3202208000	0 0 2 0	0000000000	00000000	1740000	30 15 00 00 0	23 00 00 00	000000	24 00 00	0000000000	000000	000030000	0000400000	000000000000000000000000000000000000000	25 35 7 0 0 0	156 2 11 0 0 0 0 0	0 2 1 5 3 0 0 0	0084411000
21 22 23 24 25 26 27 28 29	0 0 4 0 0 2 0 0 0	00000000	000000000	0000000	000000000000000000000000000000000000000	30000	0 0 1 1 0 0 0 0 0 0 0 0	040105000	0 4 0 1 0 5 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	00020000	0 0 0 1 0 2 0 0 0	0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	000000000	30000	000000000	000000000	0 2 0 0 0 0 0 0	05000000	06000000	04000000	0 2 0 1 0 0 0 0
MEAN	0	0	0	0	0	0	0	1	1	1	0	1	2	1	1	3	3	1	0	0	0	3	6	1	1.1

PERCENTAGE OF DATA VALID - 99.4 PERCENTAGE OF DATA INVALID - 0.6 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- \$1	JLPH	UR DIOX	IDE								UNITS .	0.0	1 PAR	TS/MI	L L 10	N							
	STAT	ION -	ASC	NO	71058		SIR J	AMES	DUNN	PUBLIC	SCHOO	L,	AWAW			MONT	н - м	AR	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000001060	0 0 0 0 2 0 6 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000	2000006200	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	000000000000000000000000000000000000000	000000000	00000000	000000000	00000000	0000000	90000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	
11 12 13 14 15 16 17 18 19												•	DATA DATA DATA DATA DATA DATA DATA	INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID												
21 22 23 24 25 26 27 28 29												* * * * * * * * * * * * * * * * * * * *	DATA ATA DATA DATA DATA DATA DATA DATA	INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID												
31												÷	DATA	INVALID												
MEAN	0	0	٥	0	0	1		1	1	0	0	2	1	0	0	0	0	0	0	0	0	1	1	0	0.4	

PERCENTAGE OF DATA VALID - 30.6 PERCENTAGE OF DATA INVALID - 69.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	STA	TION	ASC	NO	71058	s	IR JA	AES C	UNN	PUBLIC	SCHO	OL. W	AWA			CONT	нед	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11,	12	13	1,4	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9											٠	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ATA ATA ATA ATA ATA ATA	INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID	•		ě	¥	¥	¥		i			
11 12 13 14 15 16 17 18 19												- DAT - DAT - DAT - DAT - DAT - DAT	A UNI	A L L L L L L L L L L L L L L L L L L L	LE - LE - LE - LE - LE - LE - LE - LE -										
21 22 23 24 25 26 27 28 29	. 0 0 0 0 0 0 0 0	. 0000000	. 000-000	. 0002000	0000	000000	. 000000	00000	. 0 0 0 0 0	0 0 0 0 0				AVAILAB O O O O O O O		00000000	0000000	00000000	00000000	0000000	0000000	0000000	00000000	0000000	0 0 0 1 0 0
MEAN	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 25.1 PERCENTAGE OF DATA INVALID - 28.1

PERCENTAGE OF DATA UNAVAILABLE - 46.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- SI	ULP	HUR DIOX	IDE							1	UNITS	- 0.0	1 PAR	RTS/MI	LLION	N .						
	STA	TION -	ASC	NO	71058	5	IR .	JAMES	DUNN	PUBLIC	SCHOO	L.	MAWA			MON	TH : M	AY	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	00400000	00400000	100000000	100000000	000000000000000000000000000000000000000	00000000	000000000	000000	0 0 0 0 0 7 0	000000510	00000000	000000000	000000000000000000000000000000000000000	00000000	000000000	000000000	000000	000000000	00000000	00000000	00000000	0 3 0 0 0 0 0 0	05000000	0 3 0 0 0 0 0 0 0	0 0 0 0 1 2
10 11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 7 1 0 0	0 0000002102	0 0 0 0 0 0 0 1 0 2	0 0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0001000100	1000000	3000100	3 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	900000000	300400000	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0300000000	00000000000	0000000000	000000000000000000000000000000000000000	0000000000	0 0 0 0 0 0 1 0 0 0	00 000001000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 5 1 0 2 0	0 0000000000000000000000000000000000000	1001100
21 22 23 24 25 26 27 28 29	0002000084	000000000000000000000000000000000000000	000200000	000100001	0 1 0 1 0 0 0 0 0 1	0102003201	0104000001	1 0 3 0 0	0101000000	01000000	0 1 0 0 0 0 0	0001000000	000000000	000000000	000000005	00000000	000000000	0000000000	000000000	000000000	000000000	000000000	0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0060000000	0 0 1 1 0 0 0 0 1 1
31 MEAN	1	1	0	0	0	0	0		0	2	0	1	0	0	0	0	o G	0	0	0	0	0	,	1	0.4

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORGES BRANCH

POLLUTANT - SULPHUR DIOXIDE

LNITS - 0.01 PARTS MILLION

	STA	TION -	ASC	NO	71058		SIR JAM	s D	UNN	PUBLIC	SCHOO	DL.	LWAW			MONT	н - ,	JUN.	во						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	1.3	14	15	16	17	18	19	20	21	22	23	24 4	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0	0000100000	000000000	0000000000	000000000000000000000000000000000000000	1000905000	0 0 0 0 0 0 0 0 0	100010000	000000000	100020000	000220600	-000000000	0 16 0 0 0	0 0 0 0 0 0 0	000-000000	0001000000	000-000000	0000-000000	000-000000	000100000	000100000	0001000000	000-00000	000000000000000000000000000000000000000	3 0 0 0 0
11 12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	0000000000	000000180	000000830	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0 3 2	000000031	00000000	0000000001	000000000	00000000	0000000000	000000000	0000000000	000000000	9090000000	0000000000	000000000	000000000	0 0 0 0 0 0 1 0	0 0 0 0 0 0 1 0	000000000	0 0 0 0 0 177	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0	000000000	000000000	0000000000	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	020000000	000000000000000000000000000000000000000	400000000000	0 0 0 0 26 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3000000-30	000000100	000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000	0000000000	000000000	000000000	00000000	00000000	100000000000000000000000000000000000000	000000000000000000000000000000000000000
MEAN	1	1	0	0	1	1	0	0	1	0	1	0	1	0	0	0	٥	0	0	D	0	0	0	2	0.4

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POLI	UTANT	- s	ULPH	UR DIG	KIDE							UNITS	. 0.0	1 PAR	TS/MI	LLION	ļ						
	STAT	ION -	ASC	NO	71058	5	IR JAME	S DUNN	PUBLIC	SCHO	OL.	WAWA			ATON T	н - "	UL	80						
HOUR	,	2	3	4	5	6	7	8 9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	0000000000	000000000	000000000	0	0 0 0 0 0 0 3 20 7 1 0 0 0 0 0 0	3	0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0	000000000	0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000000	000000000	0000000000	000000000	00000000
11 12 13 14 15 16 17 18 19	0000000000	00000000	0000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	00000000000	0000000		00000;0000	000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000000	000000000	000000000	000000000	0 0 0 0 0 0 0 0	000000000
21 22 23 24 25 26 27 28 29	000000000	00000000	00000000	000000000	000000000	0000000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00001000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000102	000000000000000000000000000000000000000	0000000000	000000000	000000-000	000001000	0000000000	0000000000	0000000000	0000004000	0000000000	0000090000	0 0 0 0 7 0 0 0 0	0000
31	2	0	0	0	0	٥	0	0 0	-	0	0	2	0	0	0	0	,0 0	0	0	0	. υ	0	0	0.3
MEAN	0	0	0	0	0	0	0	0 1	3		0	0	U	0	0	U	Ų	0	0	U	U	v	•	0.3

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- ASC	NO.	71058		SIR J	AMES	DUNN	PUBLIC	SCH	DOL.	K X X X			NO.T	н - ,	LUÇ	80						
HOUR	3	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	00300000	080000000	02000000	00000000	000000000000000000000000000000000000000	000000000	000000000	000000000	000000000000000000000000000000000000000	00000000	0000008104	0000000000	000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000	0000000000	000000000	0 0 0 0 0 0 0 2 1 0
10 11 12 13 14 15 16 17 18 19 20	34	0 0000000000000000000000000000000000000	0 0000000000	0 0000000000	0 000000000	0 0000000000	0 0000000000	0 0000000000	0 0000000000	5 000000000	00000000	000000000000000000000000000000000000000	0000000000	0000000000	0 00000000000		0000000000	00000000000	0000000000	0000000000	0000000000	000000000000000000000000000000000000000		000000000	000000000
21 22 23 24 25 26 27 28 29 30	0000000000	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0	000000000	00000000	0000000000	000000000	000000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	0050000000	0080000000	3000000	0000000000	000000000	0010000000
31	4	2	0	0	0	0	0	0	0	0	25	6	0	0	0	0	0	0	0	0	0	0	0	0	0.3
MEAN	1	1	0	0	0	0	0	٥	0	1	1	٥	O	0	U	U	U	U	0	U	Ų		•		<b></b>

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- s	ULPH	UR DIO	XIDE							i.	INITS	- 0.0	I PAR	TS/MI	LLION	N						
	STA	TION -	ASC	NO	71058	s	IR JA	MES	DUNN	PUBLIC	SCHO	OL. 1	AWA			MONT	H - S	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	.11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 25 0	0000050000	000000000000000000000000000000000000000	000000000	000000000	000000000	000000000	0000090000	470000	0000060000	0000050000	0000040000	0000060000	0000040000	0000000000	0 0 0 0 0 0 0 14 0	000000000000000000000000000000000000000	00000000000	000000000000000000000000000000000000000	00000000000	0000000000	0000000000	0000000000	0 0 0 0 1 1 0 0 0 2 0	000080032
11 12 13 14 15 16 17 18 19 20	000000400	0 0 0 0 0 0 4 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0 0 27 0	500000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000	000000000	0 0 0 0 0 5 0 0	200000000000000000000000000000000000000	1 0 0 0 0 15 9	00000000	0,00000000	000000000	0000000000	000000000	0000000	00000000	000000000	00000000	00000	000000000000000000000000000000000000000	000012401
21 22 23 24 25 26 27 28 29	0 0 4 0 0 0 38	000000000	000000000	00000	000000000	0 0 0 0 0 0 0 0	000000000	0000000000	00000100	0 0 0 0 0 54 6	0 0 0 0 0 0 0 28	000000000000000000000000000000000000000	23000	0 0 0 0 0 47 0 6	0 0 0 0 0 2 56 0 6	0000028000	0 0 0 0 17 75 0 5	000000000000000000000000000000000000000	0000000000	0 0 0 0 1 0 0 0 7	0 0 0 0 0 0 0 0	0000010000	0 0 0 0 0 1 0 0 0	0000000000	00000114
MEAN	3	0	2	2	1	0	0	3	2	3	2	2	2	2	2	1	3	1	1	0	0	0	O	1	1.4

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - C O' PARTS/MILLION

																	e need on								
	STA	TION	. ASC	ON C	71058		SIRJ	AMES	DUNN	PUBLIC	SCHO	)OL.	WAWA			MON	TH - (	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	34 W	EAN
1 2 3 4 5 6 7 8 9	0-0000000	18 0 0 0 0 0 0 0 0	0 1 2 0 0 0 0 0 0 0 0 0	0 0 0 0 0 5 1 0	0 13 0 0 0 0 0	0 0 0 0 0 5 1 0	0 1 0 0 1 0 54 1	01002002910	000000000000000000000000000000000000000	0000100000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00001000:0	000000000	000000000	0 0 0 0 1 0 0 1	000000000000000000000000000000000000000	0 0 0 0 0 0	00000-00000	0000	0000-00000	0000000000	0 0 0 0 0 0 0 0 10	000000005	14000000000	1 2 0 0 1 0 0 7 5
11 12 13 14 15 16 17 18 19	000000000	000000000	0000004000	00000	000000000000000000000000000000000000000	00000000	000000000000000000000000000000000000000	000070010	0000070000	000000000	0 0 0 0 24 0 0	160030	0000240000	360	00000000000	0000000000	0000000000	0000000000	0 0 0 0 0 0	0000-0000	00000	0000000000	0000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0400100000	0000000000	000000000	0000000000	0 0 0 7 7 0 0 0 0 0	00000000	0 0 12 11 0 0 0 0	005000000	0000000009	000000000000000000000000000000000000000	0 0 0 0 0 0 0 1 0	00000000	0 0 12 0 0 28 0 0 0	590005	00400054	23 0 1 0 0 9 0 34 0	54	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4000000004	7 0 0 0 0 0 0 0 0 0 1	200000000000000000000000000000000000000	1100000000	34	000000000000000000000000000000000000000	6 0 4 1 3
31 MEAN	0	1	1	2	1	51 3	4	2	2	1	3	3	2	98 7	2	71	32	22	0	0	25	68 3	74 4	1	2.3

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	PC	LLUTA	NT	SUL	PHUR	DIOXI	DE						UN	ITS	- 0.0	1 PAR	RTS/M	ILLIC	N						
	ST	ATION	* 4	ASC N	0 710	58	SIR	JAMES	DUNN	PUBLIC	SCHOO	L. WAI	#A			MONT	н - н	NOV	80						
HOUR	1	2		3	4	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	1100000000	3000000000	0		000000000000000000000000000000000000000	00060520	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 30 1	0 0 0 19 2 4 25	0 5 0 0 4 5 0 5 0 5	0 1 0 0 55 4 0 1	6 1 0 0 37 1 6 2 0	3 1 0 0 21 0 3 0	2000004-01	0 0 0 0 82 0 0 4 2 0 0	13 0 53 0 13 1	20 0 5 0 1 1 0 0	0000	010000	01040.0000	20000	0 0 37 0 0	55 0	3 1 0 10 13 1 4 2
11 12 13 14 15 16 17 18 19	0 0 0 13 0 0 0			9	0 0 0 0 0 2	0 0 0 0 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0	0 0 0 0 0 0 0 0 0	200000000	000000000	001000000	000000000		- 000000000	1000000000	000000000	000000000	0000000000	000000000	000000000	000000000	000000000	0 0 8 1 0
21 22 23 24 25 26 27 28 29	000000000	0000000000	0		0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	000015413	0 0 0 0 12 2 1 1 3 0	0 11 0	0	0000605050	0 0 0 0 0 0 0 0 0 0	000000000	0000000000	18	8 0 0 0 0 0 0 0 7 0	3000004000	20000-000	000001000	0000000000	0000000000	000000000	1 0 0 0 1 3 6 0 4 0
MEAN	1	0	-	1	0	1	1 3	7	4	3	4	4	3	2	1	3	4	1	1	0	0	0	1	2	2.0

PERCENTAGE OF DATA VALID - 96.8

PERCENTAGE OF DATA INVALID - 3.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - 5	LULPH	UR DIO	XIDE								UNITS	٠.	ni Pa	RTS/M	111110	N						
	1000				71058			AMES	DUNN	PUBLIC	SCHO	OL.	WAWA			ON	fH -	DEC	80						
HOUR	1:	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0 0 0	12 0 0 19 17 0 1 0 0 0	9 0 0 7 0 0 2 0 0 0	3 0 20 20 0 0 0	0 0 11 37 0 2 0 4	3 0 20 44 0 2	7 0 14 5 0 1 1 0	13 0 3 1 0 7 0	0	8 0 14 7 0 1 0 0 20	3092000040	5  0 0 0 0	0 7 2 0 0 0 0 2	0 6 4 0 0 0 0 4 39	0 0 1 3 4 7 0 4 0 55	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000-	000000000	000000000000000000000000000000000000000	000000004	000000000000000000000000000000000000000	000000	0 7 0 3 0 4 0	2 0 3 7 6 1 0 0 3 13
11 12 13 14 15 16 17 18 19	5 1 0 17 9 0 5 0 3 1	21 17 0 0 5 2 8 0	1 24 0 0 1 2 10 3 2	13 22 5 0 0 3 4 5 40 9	51 19 7 0 0 0 8 20 42	0 8 5 0 0 0 3 24 9	0 3 15 0 0 1 5 22 4	9 3 15 0 0 1 0 14 14	16 0	6 5 33 0 14 1 0 10 12 37	8 2 0 9 2 0 14 31	38 5 16 0 9 2 0 21 25 8	43 14 25 0 0 2 0 10 0	14 13 0 0 0 2 0 15	78 9 0 0 2 0 7 0	800000800	050000000000000000000000000000000000000	6 0 0 0 0 5 0 1 70 0	1 71 0 0 0 0 3 0 0 50	3 6 0 0 0 0 11 0 59	1 0 27 0 0 0 0 0	3 0 4 8 0 9 0 0 9 4 5	0 0 22 2 0 12 0 15 23	5 0 7 0 8 51	13 10 3 2 2 2 7 18
21 22 23 24 25 26 27 28 29 30	9 6 13	3 9 15	0 9 5	77 7 0	28 10 0	77 8 0	83 3 2	100	35 1 0	68	39 0 0	:	DATA DATA DATA DATA DATA	O O O O O O O O O O O O O O O O O O O	D -							9 0	23 0	<sup>9</sup>	24 2
31 MEAN	3	6	4	10	11	10	8	9	7	10	6	7	DATA 5	INVAL	. D	3	1	4	6	7	э	6	6	4	6.3

PERCENTAGE OF DATA VALID - 72.7 PERCENTAGE OF DATA INVALID - 27.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1, \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. . INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION - ASC NO	71058 SIR JAMES	DUNN PUBLIC SCHOOL. WAWA		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	2.2	24	196
FEB	29	1.1	8	156
MAR	9	0.4	1	16
APR	7	0.1	1	4
MAY	31	0.4	2	51
JUN	30	0.4	3	33
JUL	31	0.3	3	39
AUG	31	0.3	2	39
SEP	30	1.4	14	75
ост	31	2.3	22	96
NOV	29	2.0	13	103
DEC	22	6.3	24	100
VEAR	311	1.5	24	196

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.0: PARTS MILLION

STATION - ASC NO 71058	SIR JAMES DUNN PUBLIC SCHOOL. W	AWA
------------------------	---------------------------------	-----

MONTH C	O 10 05	06 TO 10	11 TO 15	16 TO 20	21 10 25	26 TO 39	40 10 49 5	O SOVER	TOTAL
JAN	689	24	7	6	4	2	-1	9	742
FEB	671	8	2	3	3	3	٥	2	692
MAR	224	3	0	1	0	0	0	0	228
APR	181	0	0	0	0	0	0	0	181
MAY	729	10	1	0	0	0	0		741
JUN	703	9	i	2	0	3	0	0	718
JUL	734	4	0	ī	i	2	0	0	742
AUG	732	4	3	0	1	2	0	0	742
SEP	680	13	8	3	4	6	2	4	720
oct	682	15	13	6	8	8	0	11	743
NOV	640	17	17	6	3	6	2	6	697
DEC	393	56	29	18	11	13	7	14	541
YEAR	7058	163	81	46	35	45	12	47	7487

## FREQUENCY DISTRIBUTION BY PERCENTILES

 PERCENT OF DATA				FREQUEN		TRATIONS IBUTION,					ARITH
VALID	MIN	10	30	50	70	90	95	98	99	XAM	A'E AN
05.2	0	0.0	0 0	0.0	0.0	1.6	6.6	19.1	35.0	196	1.5

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	- s	ULPH	JR DIOX	IDE							,	INITS	. 0.0	1 PAR	TS/MI	LLION	4						
	STA	TION -	NE	NO '	75010	OPI	STA	TION	NORTH	H BAY						NONT	н - ,	IAN	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	3	1	٥	1	0	1	0	0	••••	0
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3	Ÿ	- 1	1	ŏ	ö	ŏ	ŏ	ŏ	1	1		1	ŏ	ŏ	Ö	ĭ	i	i	2	2		1	1		ī
	- 4	- 1	ò	ŏ	o	ĭ	2	2	3	2	2	i	ĭ	ĭ	2	o	0	a	ō	ō	ò	1	1		1
6	4	•	1	ŏ	1	1	1	1	ŏ	ō	ō	ò	0	Ö	ō	O	ō	0	00	0	o	0	C		0
7	o	Ó	ò	ŏ	Ó	0	0	0	1	1	0	ō	0	0	0	0	0	1	0	1	1	1	1		0
8	0	1	1	2	1	0	1	1	1	1	0	1	3	2	2	1	1	1	1	2	1	1	0	• • • •	1
9	1	3	0	0	0	0	1	1	2	2	1	1	0	1	2	1	1	2	2	3	2	1	1		1
10	1	1	1	1	1	1	0	1	2	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
11	1	1	1.	2	2	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	• • • •	1
12	0	0	0	0	0	0	0	2	3	1	1	1	1	1	1	1	U	0	0	0	1	1			•
13	1	1	1		0	0	0	0	0	0	1	1	1	1	1	0	0000	٥	٥	1	1	1	1	1	1
14	- 1	2	2		1	1	4	3	1	1	1	0	0	0	0	٥	0	٥	1	1	1	1	1	••••	1
15	1	0	0	0	0	1	1	2	1.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	٥	0	0	0	• • • •	0
17	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		0		0	0	1	2	- 1	0
18	1	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	٥	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	1	3	2	1	2	3	3	2	2	_ 1	- 1	0	0	2
20	0	1	0	0	0	0	0	0	0	0	0	0	o	0	0	2	1	10	11	7	2		18	7.	- 2
21	0	0	0	0	0	0	0	5	1	1	1	0	0	0	0	0	1	1	1	2	1	1	1	1	1
22	1	1	1	0	0	0	0	1	1	1	0	• • • •	1	1	1	1	1	- 5	1	1	0	0	0	0	1
23	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0
24 25	0	0	0	0	0	0	٥	0	0	0	0	1	0	0	0	1	3	1	1	1	2	4	5	••••	- 1
25	5	4	3	4	3	2	2	2	4	4	3		1	0	0	0	3	2	3	4	4	4	4	•	
26 27 28 29	. 1	0	1	1	0	0	0	1	1		1		0	0	1	1	1	1	2	2	2		1		1
27	1	.1	1	1	1	1	1	1	1		1	- 1	1	0	0	0	0		1	1	1	1	,		1
28	0	0	0	٥	1	0	0	1	1	0	0		0	1	1	1	1	1		1	0	0	0	0	0
29	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	٥	0	0	0	0	- 1	1	0		Č
30	1	1	1	1.	0	0	0	0	1	0	0	C	Į.	0	С	O	1	1	1	1		O	J		C
31	0	0	0	0	1	•	4	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	Q	0	U
MEAN	1	1	1	0	0	0	0	1	1	1	0		٥	0	0	0	1	1	1	1	1		1	0	0.6

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE OPP STATION NORTH BAY MONTH - FEE 80 STATION - NE NO 75010 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN HOUR DAY 0 ----0 0 0 1 0 2 3 1 1 .... 0 2 2 0 2 2 2 2 22 23 0 0 1 27 0.8 ì MEAN

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID . 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAR 80 OPP STATION NORTH BAY STATION - NE NO 75010 16 17 18 19 20 21 22 23 24 MEAN 6 7 8 9 10 11 12 13 HOUR ò 12 13 14 15 16 ů ...0 00-000 00-00000-24 25 ò ò o 0.5 MEAN 

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - D. OF PARTS/MILLION

	STA	TION	- NE	NO	75010	0	PP 51	ATION	NOR	TH BAT	,					"ON	тн	1PR	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	* 6	17	18	19	20	21	22	23	24	MEAN
4	0	0	0	0	0	1	1	1	1	1	1		0	0	o	0	0	o	o	,	2	2		0	
2	1	1	1	1	1	0	0	2	3	1	0	٥	ō	ō	ŏ	0	õ	ŏ	o	ò	ő	ő	ó	ŏ	ò
3	0	1	*	1	0	0	1	2	1	1	o	ĩ	ō	ō	o	o	ŏ	o	·	ĭ	Ÿ	ő	ő	ő	·
4	0	0	0	0	0	ō	0	ō	0	0	o	0	ō	ŏ	ő	Ö	ŭ	ŏ	ò	ò	ò	0	ő	ŏ	ò
5	0	0	0	0	0	0	0	0	ō	1	ĩ	ĭ	ī	ĭ	ĭ	2	,	o	ő	ő	ŏ	ö	ő	č	ŏ
6	0	0	0	1	2	2	4	4	1	1	0	0	o	ò	o	ō	Ċ	o	a	õ	ŏ	o	ō	3	ř
7	0	0	0	0	0	a	0	0	o	0	ō	1	1	ĭ	1	ĩ	1	Ÿ	·	ĭ	·	1	0	٥	ò
8	0	0	0	0	0	0	1	1	ĭ	1	ĩ		i	,	- 4	i	i	ò	- 1	ò	ò	ò	o	ŏ	·
9	0	0	0	ō	0	ō	0	ò	ó	Ö	ò	à	ò	ó	o	ò	ò	o	ò	ő	Ö	ő	o	ő	ė.
10	0	0	0	0	0	ō	o	0	ō	ō	ō	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	Ö	ŏ	o	ŏ	0
11	0	0	0	0	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	u	U
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G	0	0	ō	ō	ŏ	õ	ō	Č	ō	ō
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	o	ō	ō	ō	ŏ	ŏ	ŏ	Õ	õ	ŏ
14	0	0	0	0	0	0	0	0	0	0	0	0	٥	ō	ō	ō	ō	ŏ	ŏ	ŏ	ŏ	ŏ	0	o	ŏ
15	0	0	0	0	0	0	0	0	0	0	0	0 '			ō	0	ō	ō	ō	ŏ	ŏ	ŏ	õ		ŏ
16	0	0	0	0	0	0	0	0	0	0	0	o	0	0	ō	a	ō	0	ŏ	ŏ	ŏ	õ	o		o
17	0	0	0	0	0	0	O	0	0	0	0	0	0	0	õ	o	ō	ō	ŏ	ŏ	ŏ	0	ŏ		ŏ
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	0	o	o	ŏ	ŏ	ĭ	ĭ	õ		õ
19	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	o	0	o	0	ŏ	ŏ	ò	i	õ		ŏ
20	0	0	0	0	0	0	0	0	0	0	0	0	o	ŏ	ō	ō	ō	ŏ	ŏ	ŏ	ŏ	ò	ō	••••	ŏ
21	0	0	0	0	0	0	1	3	1	0	0	0	0	0	٥	0	0	0	0	0	0	0	0		0
22	1	1	1	•	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
24	0	٥	0	0	0	0	0	0	1	2	3	1	1	1	0	0	0	0	0	0	1	1	1		1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	ō	Ó	0	0		0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0		0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		C
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ō	ō	ŏ	0		٥
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	o	ō	ŏ	ō	ō	0	o
30	0	•••	C	0	Ç	C	0	C	0	0	0	ō	0	0	^	O	0	0	^	ñ	ñ	ñ		• • • •	ō
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	٥	0	0	0	0.2

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLUT	ANT	- SI	ULPH	UR DIO	IDE							ţ	JNITS	. 0.0	1 PAR	RTS/MI	LLION							
		STATIC	N -	NE	NO	75010	0	PP S	MOITATE	NORT	H BAY	r					MONT	rH - N	A Y	80						
HOUR DAY		1 2	b	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	•••	0 0 0		000010000	0000100000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0010000000	1110000001	0 1 1 0 0 0 0 0 1	1 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100000000	00000-00-0	0000000011	0 0 0 0 0 0 0 1	000-00000	000000000	000000000	000000000000000000000000000000000000000	000000000	0000000	0001010001	0 0 0 1 0 0 0 1	0	0000000000
11 12 13 14 15 16 17 18 19		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0000000000	0 0 1 0 0 0 0	0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	010000000	000000001	0000000000	00-000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100000000000000000000000000000000000000	10100000	00.0200010	0 0 1 0 0 0 0 0	0 0 1 0 0 0 0 0	001000001	00-000000	0 0 1 0 0 0 0 1	20.00000	00000	
21 22 23 24 25 26 27 28 29		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000001100	000000000	100000000	1000010100	1 0 0 0 0 1 0 1 1 0	100000000000	000000000	00000000	0 0 0 0 0 0 0 1	0 1 0 0 0 0 0 0 0 1	0 1 3 0 0 0 0 0 0 0 0	000000000	000000000000000000000000000000000000000	001000000	0000000000	0000000000	0001000000	000000010	000000000	00010000-0	0000000000	0 0 0 0 0 0 0 0
31 MEAN	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	υ 0.2

PERCENTAGE OF DATA VALID - 98.0

PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE . O.O.

- \*- \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES ERANCH

UNITS - 0.01 PARTS/MILLICN POLLUTANT - SULPHUR DIOXIDE STATION - NE NO 75010 OPP STATION NORTH BAY MONTH - JUN BO 21 22 23 24 MEAN 17 18 19 20 6 7 8 9 10 11 12 13 14 15 16 HOUR 4 0000000000 1 2 3 4 5 6 7 8 9 0000100000 00000000000 0000000000 000000000 0000000001 0000001001 000000000 0000000000 1000-0000 0000000000 0000000000 0000000000 0000101000 000000000 0000000000 0000000000 11 12 13 14 15 16 17 18 19 20 0 0111000000 00-0-00000 00-0-00000 0--0000000 1110000000 00--00-000 1112000000 ----٥ 0-0-000000 0000-0000 000000000 010100000 0-0000000 0000000 0000000000 0000000000 0-0000000 0-0000000-...... 100-00000 0000000000 000000000 21 22 23 24 25 26 27 28 29 30 1001101000 2000--00000 1001001 10011020 1001000000 0 00000-000 000001000 000000 001101000 101000 00000 0 0 0 0 0 O 0 0.2 0 0 0 o 0 MEAN 0 0 ٥

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- SU	LPHU	IR DIO	IDE								UNITS	· o.	01 PA	RTS/N	ILLIC	N						
	STAT	ION .	NE	NO 7	5010	o	PP ST	ATION	NORT	H BAY						MON	тн -	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1,7	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9 0 1 1 1 2 1 3 1 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1010200000 20000001	1010200000 20000001	1010200000 20000001	1010200000 20000001	1 0 1 0 2 0 0 0 0 0 0 1 1 0 0 0 0 1	10100001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 0 0 1 1 0 0 0 1 1 1 0 0 0 1 1	1 1 1 1 0 0 1 1 1 0 0 0 1 1	1 1 1 2 2 0 1 1 0 0 1 1 1 0 0 0 0 1 1	0 0 1 1 1 0 0 0 1 1 0 0 0 1		DATA DATA DATA DATA DATA DATA DATA DATA	0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 0
31 MEAN	0	0	0	0	0	٥	,	,	,	1	0	0	0	INVAL	0	0	٥	0	0	0	o	1	0	0	0.4

PERCENTAGE OF DATA VALID - 56.5

PERCENTAGE OF DATA INVALID - 43.4

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION

	STA	TION	· NE	NO	75010	0	DPP ST	ATION	NORT	ГН ВДУ						MON	ГH - :	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	: 7	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 1 0 1 0 0	00000-0-00	0 0 0 0 0 1 0 0	000000000	000000000	000000000	0000000000	0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 1 1	000000000	000000001	0000000001	00000000	0000000000	0000000000	0000000000	00000000000	3000000	0 0 0 0 0 1 1 0 0 0	0000001000	0000001000	0000000000	0000000000	0000000000	000000000
11 12 13 14 15 16 17 18 19	000000000	0000000000	000000000	000000000	000000000000000000000000000000000000000	00000000	000000001	0 0 0 0 0 0 0 1	0 0 0 0 0 0 1	0 0 0 0 0 0 1	3 2 0 0 0 0 0 0 1	2 2 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 1	000000000000000000000000000000000000000	000000000	0 0 0 0 0 0 0 0 1	0 00000000	0 3 0 0 0 0 0 0 0	000000000	0000000000	000000000	0 000000000	0 3000000000	0 0 0 0 0 0 0 0 0	0-300000000
21 22 23 24 25 26 27 28 29	000000000	000000000	0000000000	000000000	000000000	000000000	0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	0 1 0 0 0 0 0 0 0	0-00000000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	010.000000	0 1 0 0 0 0 0 0 0 0 0	0100000010	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	000000000	0000000000	000000000	000000000000000000000000000000000000000	00000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. " -- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	· s	ULPHI	UR DIOX	IDE							1	UNITS	. 0.0	)1 PAF	RTS/MI	LLION							
	STA	TION .	NE	NO 1	75010	0	PP S	TATION	NORT	H BAY						MONT	гн - о	CT	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	1.4	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	000000000	0 0 0 0 0 0 0 0 0	000000000	0000000000	000000000	1 1 0 0 0 0 0 0 0 0 0 0	200000000	000000000000000000000000000000000000000	1 0 0 0 0 0 0 0 0	*************	0200001000	0 2 1 0 0 0 1 0 0 0	0 2 1 0 0 0 1 0 0 0	0400001000	0 1 0 0 0 0 1 0 0 0	030000000	0300001000	000000000	0 0 0 0 0 0 0 0 0	000000000	000000000	000000000	0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	000000000000000000000000000000000000000	000000000	000000000	0000000000	00000000	000000000	0000000000	000000000	00000-0000	000000000	000000000	00000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	000000000	000000000	000000000	0 0	0000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0	0000011000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001000000	201000000000000000000000000000000000000	000000000000000000000000000000000000000	000000001	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	000000000	0 0 0 0 0 0 1 0 0	0 0 0 0 0 0 1 0 0	0 0 0 0 0 0 1 0 1	0 0 0 0 0 1 0 1	000000100	0000000000	000000000000000000000000000000000000000
31	0	0	0	0	0	0	0	0	0	0	0	С	0	0	1	0	o	0	1	1	2	2	1.51	••••	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.1 PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . . . INDICATES DATA IS UNAVAILABLE
- 3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	STA	TION -	NE	NO T	75010	0	PP ST	ATION	NORT	H BAY						MON	TH - 1	4CA	80				,		
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 N	JEAN
1 2 3 4 5	0	1 0 0 0	1 0 1 1 0 0	00000	0 1 0 0	0000000	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0		0 0 0 0	0 0 0 0	0 0 0	00000	2000	3 4 2 0 0 0	0 2 3 1 0	3 0 0	2000	0 0 0 0	0 0		0 0 0 0 0
7 8 9 10	0	0	00000	00000	0 0 0	0	00000	0	0 0 0	0000	0000	000	0	0	0	0	0000	000	000	0000	00000	0000	0000	0000	0000
11 12 13 14 15 16 17 18 19	0 0 2 0 1 0 0 0 0	0 0 0 0 0 0 0 0	0000000000	00000000	000000000	000000101	000000000	0 0 0 0 0 1 1	000000011	000000011	000000110	000000000000000000000000000000000000000	00000011	00000000	000000000	000000000	000000000	0000000111	0 0 0 0 0 1 1 1	0 0 0 0 0 0 1 1	0 0 0 0 0 1 1 1	0 1 0 0 0 0 0 0 0	0000000	0	0 0 0 0 0 0 1
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0	0100000000	020000000	1000000000	100000000000000000000000000000000000000	100000000	1000010010	1 0 0 0 0 1 1 0 1 0	1 0 0 1 0	1 0 0 0 1 0	1 0 1 0 1 0	1000	0 0 0 2 1 1 0 1 0	1 1 0 0 0	0 1 0 2 0 0 0 0 0 1	0 1 0 2 1 1 0 0 1 0	0 1 0 3 1 1 0 0 0 0	0 1 0 0 1 0	0 1 0 0 1 0 0 1 0	0 1 0 0 1 0		0 0 0 0	0 0 1 1 0 0 1 0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c	1	1	0	٥	0	0	0	0.3

PERCENTAGE OF DATA VALID - 97.2 PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- s	ULPH	UR DIO	XIDE							į	JNITS	. 0.0	01 PA	RTS/M	ILLIO	N						
	STA	TION -	NE	NO	75010	0	PP \$1	ATION	NORT	TH BAY	•					NON	TH - (	DEC	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 1 0 0 1 1 0 0 0 0	0100100000	010010000	0100100000	0100000000	0100000000	0101000000	0101000001	0001100001	0001100000	000200000	0002001000	0002001000	00020000	000000000	000200000	0 0 0 0 0 0 0 0 0	1 0 1 0 0 0 1 0 0	0 2 0 1 1 0 0 0 0 0	1 0 0 0 0 0	1 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	100010000	0001100000	010-000000
11 12 13 14 15 16 17 18 19	0 1 0 0 0 0 0 0 2	0 1 0 1 0 0 1 1 0 2	0101101102	0 1 0 1 0 0 2	0 1 0 1 0 0 2	0 1 0 1 0 0 2	0210201002	0210101002	0 1 0 0 1 1 0 0 2	1 1 0 0 1 0 0 2	1 1 0 0 1 0 1 2	0 0 0 1 0 1 1 2 1	1 0 0 0 1 1	1 0 0 1 0 0 1 1 1	1 0 0 0 1 1 0	1000100110	20:00:00112	1020000113	1020001123	2030000132	2031000132	2021000142	1 0 0 1 1 3 2	0 1 0 1 1 2 2	1 1 2
21 22 23 24 25 26 27 28 29 30	1 0 0 0 1 1	2 1 1 0 0 0 0 0 1 1	1 1 0 0 0 1 0 1 2	2 1 1 0 0 0 2 1 1 2	2 0 0 0 2 1 1 2	2 0 1 0 3 1 1 1	1 2 0 1 0 3 2 1 1	3120003210	30103320	2 1 3 0 1 1 2 3 2	1 3 0 1 1 1 3 4	0 1 4 0 0 1 1 3 1 1	304011301	3 0 4 0 1 1 0 3 0	3 0 4 0 1 2 0 3 0	4030110300	4030100201	4120100101	3 1 2 0 1 0 0 1 0	3 1 0 1 0 0 1 0 0	3 1 0 0 1 0 0 1	3 1 1 1 0 0 1 0 1	3 1 1 1 0 0 1 0 1	00000	2120101211
31 MEAN	0	1 0	1	1	1	1	1	1	1	1	0	0	1	1	1	,	1	1	1	1	1	1	1	ŭ	0.7

PERCENTAGE OF DATA VALID - 99.9 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## CHTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0:01 PARTS/MILLION

STATION - NE NO 75010 OPP	STATION NORTH BAY
---------------------------	-------------------

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.6	3	11
FEB	29	0.8	2	7
MAR	31	0.5	2	7
APR	30	0.2	1	4
MAY	31	0.2	•	3
JUN	30	0.2	1	3
JUL	17	0.4	*	?
AUG		DATA UNAVAI	LABLE	
SEP	30	0.1	0	3
OCT	31	0.2	1	4
NOV	30	0.3	<sup>1</sup> <b>E</b>	4
DEC	31	0.7	2	4
YEAR	321	0.4	3	11

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980														
POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION														
STATION - NE	NO 750	10 OPP 5												
MONTH DO	TO 05	06 TO 10 1	1 TO 15 1	6 TO 20 2	1 10 25 20	6 TO 39 40	TO 49 50	BOVER	TOTAL					
JAN	725	2	1	0	0	0	0	o	728					
FEB	677	2	0	0	0	0	0	0	679					
MAR	736	2	0	0	0	0	0	0	738					
APR	701	0	0	0	0	0	0	0	701					
MAY	729	0	0	0	0	0	0	0	729					
JUN	719	0	0	0	0	0	0	0	719					
JUL	420	0	0	0	٥	0	0	0	420					
AUG		DATA UNAVAI	LABLE											
SEP	719	0	0	o	0	0	0	0	719					
OCT	737	0	0	O	0	0	0	0	737					
NOV	700	0	0	0	0	0	0	0	700					
DEC	743	0	0	0	0	0	0	0	743					
YEAR	7606	6	1	o	0	0	0	0	7613					

200

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/ETLLION

	POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION											
	STATION - NE NO 75016 VERNER PATROL YARD									ARD DO	T VE	RNER				NON	H - JAN 80								
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0000021101	0 0 0 0 3 1 2 0 0 0 1	0000030200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000040000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2 2 1 0 0 0 0	000002200000	0 0 0 0 0 0 0	0000010001	2000010100	0 1 0 0	6 0 0 1 0 1 0 2 0 0 0	3001010200	1 0 0 1 0 2 0 0 0	000000000000000000000000000000000000000	000010100	0001010100	00000-0-00	0000110100	0 0 0 0 0 0 0	00000-0000	000000000000	100001200000000000000000000000000000000
12 13 14 15 16 17 18 19	001000000	0 1 0 1 1 0	0 0 1 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	000000	0000000	600000000	100100010	0003	000310020	000000000000000000000000000000000000000	1 0 0 0 2 0	1 1 1 1 2 0	1 0 0 0 1 2	0 1 3 1 0 0 0 0 2 2	0 0 0 1 12	0 1 3 1 0 0 0 1 8	0 0 4 0 0 0 0 0 5	00000000	011000000	0-0000000	0-0000000	0 0 0 1	1 0 0 0 1 1
21 22 23 24 25 26 27 28 29 30	0100112000	0 1 0 0 1 1 1 0 0 0	0000101000	0000101000	0 0 0 0 1 0 0 0	0000101100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 1 2 0 0	000000000000000000000000000000000000000	00000	0 1 1 0 0 0	0000	0 0 0 0 0 0 0	0 1 0 2 0 0 0 2 0 0	0 0 0 0	1 0 4 4 4 1 1 0 0 0	5 1 0 3 0 3 1 3 0 0	7 0 1 1 5 1 2 0 0	3 1 0 1 2 7 0 1 0 0	1 0 1 4 5 0 0 0 0	3 3 1 0 0 0	2 2 1 0 0 0	2 2 2 1 0 0 0	0	1 1 0 1 1 1 1 0 0
31 MEAN	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0.5

PERCENTAGE OF DATA VALID - 98.8 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	POLLUTANT - SULPHUR DIOXIDE													UNITS - 0.01 PARTS/MILLION										
	STA	TION -	NE	NO	75016	1	ERNER	PATROL YARD DOT VERNER						MONTH - FEB 80											
HOUR	7	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000002700	000002400	000000000	0 0 0 0 1 1 0 0	000001100	0 0 0 1 1 0 0	0000000	000001000	00001000	000021000	0000-0000	00000000	00000000	00000000	000000000	000000000	000000000	0 0 0 0 7 0 0	0000000	0 0 0 0 0 1	0 0 0 1 0 0 0 1	000011002	0	0 0 0 1 2 0 0
10 11 12 13 14 15 16 17 18 19 20	1 0 1 0 0 1 0 0 0 1 1 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1010000011	1 0000000011	2 0 0 0 1 0 0 0 0 1	2 00001000011	3 00 1 1 00 00 1 1	3 0 0 1 1 0 0 0 0 1 1	1 0 0 0 1 0 0 1 1	2 0 0 1 1 0 1 1	4 0000011011	000000000000000000000000000000000000000	3 0 0 0 0 1 0 0 1 1	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 1	0 0 0 0 0 0 1 1	1400000011	0 4 0 0 0 0 0 1 1	0 3 0 0 0 0 0 1 1	3 0 0 0 0 1	3 0 0 0 0 1 1 1	1 0200000111	0	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0000	1 1 0 0 0 1 0 0	110000100	000000000000000000000000000000000000000	0000	1 1 0 0 0 1 0 0	1 1 0 0 0 0 1 0 0	1 1 1 0 0 1 0 0	1 0 0 0 0 0 0	0 0 1 2 0 0 0	20200	1 0 4 0 0 0	3 0 1 2 0 3 1 0 0	3 0 1 2 0 9 1 0 0	1 1 0 5 1 0 0	1 0 0 3 1 0 0	0 0 0	1 0 1 3 0 1 0	1 0 1 1 0 2 0 0 0	1 0 1 3 0 3 0 0 0	1 0 1 1 0 2 0 0 0	100000000000000000000000000000000000000	101001000		1 0 1 1 0 2 1 0 0
MEAN	0	1	0	0	0	0	0	0	0	1	1	1.	1	1	1	0	1	1	1	1	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID . 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR PESCURCES GRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - O.C. PARTS/MILLICN

											CONTROL IN CONTROL CONTROL TO THE THEORY														
	STA	· NE	NO	75016	5	VERNER	PATR	OL Y	ARD DO	DT VE	ENER				MONT	fH - :	J-R	во							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	:3	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 2 0 0 0 0 0 0 0	0,00000000	020000000	0 2 0 0 0 0 0 0 0 0	20000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 1 1 0 0 0	0 2 0 0 0 1 1 0 1 0	0100011010	0 1 0 1 0 1 0	0 0 0 0 0 1 0 3 0	0100008030	000005040	0 0 0 0 0 1 0 4 0	0001001000	000000000000000000000000000000000000000	0000000000	000000000000	100000000	***************************************	2000-0000	200020000	3 0 1 0 0 0 0	3010000100	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 0 0 1	0 00000001	1 0 0 0 1 0 0 0	0 0 0 1 0 0 0 1	0 0 0 1	1 0 0 0 0 1	0 0 0 0 0 0 1	1 0 0 1 0 1 0 2	0 1 0 0 1 0 3 0 1	1 0 0 1 0 2 1 1	1 0 0 1 0 3 1 1	0 0 1 0 0 1 1	0 0 1 0 0 0 0	0 : NVALI 1 0 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 4 0 1	0 1 0 0 0 0 6 0 1	0010501	0 0 0 0 0 0 0 1	0 1 0 0 1 1	0 0 0 0 1 1	0 0 0 1 0 0 1 1	0 0 0 0 0 0 1 1	0 0 0 0 0 1 1	0 1 0 1 0 1
21 22 23 24 25 26 27 28 29 30	100000000	100000000	1 0 0 0 1 0 0 0 0 2	100000000000000000000000000000000000000	0 0 0 0 0 0 0 1	00000000	1000000000	000001000	000001000	000001000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00-00-0-00	0100000000	000000000000000000000000000000000000000	00-0000000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000-0	0001000010	0001000010	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0.3
MEAN	0	0	0	0	0	٥	0	0	0	0	1	1	1	0	0	٥	٥	0	0	0	o	0	0		0

PERCENTAGE OF DATA VALID - 96.0 PERCENTAGE OF DATA INVALID - 4.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE														UNITS - 0.01 PARTS/MILLION										
	STATION - NE NO 75016 VERNER PATROL YARD DOT VERNER														MONTH - APR 80										
HOUR	1.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	0000010000	0010110000	0010010000	000000000	0000	00-0000000	000000000	00000000	000000000000000000000000000000000000000	2000100000	-000000000	000000000	0000000000	00-0000000	00-0000000	00-0000000	000000000000000000000000000000000000000	00000000
11 12 13 14 15 16 17 18 19 20	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	00000	00000	000000000	000000000	00000000	000000	0 0 0 0 0 0 0 0 0	0 300000000	0 000000000	000000000	0000000000	000000000	0 3000000000	0 000000000	0 0 0 0 0 0 0	0000000
21 22 23 24 25 26 27 28 29 30	0000-0000	0000-0000	0 0 0 0 0 0 0 0	0000000000	0100000000	010000000	0 1 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0	000000000	000000000	000000000	0001000	0 0 0 0 0 0 0	0 0 0 0 0 0	00000-000	0000001000	000000000	00000000	0000000000	0000000000	0001000000	000100000	0 0 0 0 0 0	0000000000
MEAN	0	0	0	0	0	٥	0	٥	0	0	0	٥	0	0	0	0	٥	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. " " INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . C. O. PARTS, VILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAY 80 VERNER PATROL YARD DOT VERNER STATION - NE NO 75016 22 23 24 MEAN 17 19 20 21 16 18 8 10 HOUR 5 . 0000000 0000000 0000000 0000000 0000000 000-000 0000000 0000010 0000010 0001010 000-0 00000 0000000 00000000 00000000 00100000 00-00000 00000000 00000000 00000000 00000000 300000 . - DATA UNAVAILABLE - DATA UNAVAILABLE - DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE - DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE
- DATA UNAVAILABLE DATA UNAVAILABLE
DATA UNAVAILABLE
CATA UNAVAILABLE
CATA UNAVAILABLE
CATA UNAVAILABLE
DATA UNAVAILABLE - DATA UNAVAILABLE 31 0 0.1 0 0 0 0 0 MEAN PERCENTAGE OF DATA UNAVAILABLE - 76.1

PERCENTAGE OF DATA VALID - 23.8 PERCENTAGE OF DATA INVALID - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FA:LURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 FARTS/MILLION

TATION - NE	NO 75016 VERNER F	ATROL YARD DOT VERNER		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXINGM	MAXIMUM READING
JAN	31	0.5	2	12
FEB	29	0.5	2	14
MAR	30	0.3	1	8
APR	30	0.1	0	3
MAY	7	0.1	0	2
YEAR	127	0.3	2	14
1 544	1.4.6			

UNITS - 0.01 PARTS/MILLION

POLLUTANT - SULPHUR DIOXIDE VERNER PATROL YARD DOT VERNER STATION . NE NO 75016 MONTH OD TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 ADVER TOTAL 0 0 681 0 0 3 0 674 6 FEB 714 0 ٥ 0 0 0 MAR 712 0 0 0 o APR 717 0 0 177 0 0 0 MAY 177 3024 YEAR 3008

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA CONCENTRATIONS
FREQUENCY DISTRIBUTION. PERCENT
50 70 90 95 AR I TH MEAN 98 99 MAX 10 30 MIN VALID 3.5 0.3 0.0 0.7 1.2 2.4 0.0 0.0 82.9 0.0

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION STATION - NE NO 77001 PENAGE SUDBURY AIRSHED SOUTH - JAN 80																								
	STAT	ION -	ΝE	NO 1	77001	,	ENAGE	SUDB	URY	AIRSHE	D					#:ON	тн - "	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	00000	0000	0 0 0 0 3 3 1 0 0 0	0000131000	0 0 0 1 3 1 0 0 0	0000	0 0 0 0 1 3 1 0 0 0	1 0 0 0 1 3 0 0 0	0 0 0 1 3 0 0 0 0	3 0 0 0 1 3 0 0	3000420000	2000220000	3 2 0 0 0	0 0 0 7 2 0 0 0	0 0 0 17 1 0 0 0	000000	00060-0000	0005000000	000320000	3 3 0 0 0	0008200000	0 0 0 0 0 0 0	0 0 7 29 1 0 0	0 0 0 0 0 0 0	1 0 2 4 2 0 0
11 12 13 14 15 16 17 18 19	000000000	000000000	000000000	0000100000	000050000	0000700000	0000400000	00000	0000000000	0 0 0 0 0 0 0	000000000	000000000	0000000	0000000	0 0 0 0	000000000	00000000	000010000	0 0 0 0 0 0 0 0 0	000000000	000000000	000000000	0000000000	000000000000000000000000000000000000000	000000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	000000000	000000000	000000010	000000110	0000000000	000000100	000000100	000000	00000000000	00000000000	0000000400	000000000	0000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	00000000000	0 0 0 0 0 15 0 0	0 0 0 0 0 15 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000	0 0 0 0 0 0 7 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O	0	O	٥	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	6	1	1	1	1	1	1	0.6

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

UNITS - O.CI PARTS MILLION POLLUTANT - SULPHUR DIOXIDE MONTH . FEB 80 STATION - NE NO 77001 PENAGE SUBBURY AIRSHED 22 23 24 MEAN 21 16 17 18 19 20 8 9 10 11 12 13 7 HOUS 4 5 6 000031001 0000450000 000048 0000150003 0000033000 00000970-7 1 2 3 4 5 6 7 8 9 10 0000013004 8 0000000111 0000000111 1000000011 11 12 13 14 15 16 17 18 19 20 10000-00-2 1000000011 0000000011 000000011 0000000 000000011 0 10 0 1 16200000 732000000 14 12 3 0 0 0 1 0 0 21 22 23 24 25 26 27 0 0 23 0 0 0 0 0 0 0 13 20 00 00 0 25 20 00 00 0 0 00100000 0-00000 10000

2 2 2

PERCENTAGE OF DATA VALID - 99.9

MEAN

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. -- INDICATES DATA IS UNAVAILABLE

0 0 1

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES ERANCH

																1 PAR	TS /M	11.106							
	POL	LUTANT		SULPI	HUR DIO	XIDE								14112	- 0.0										
	STA	TION -	NE	NO	77001		PENAGE	SUDB	URY	AIRSHE	D					MONT	H - N	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8	0000300010	0000100010	000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000100000	0000400000	0000000000	0000100000	0 0 0 0 15 0 0	0000700500	0000600600	0000100500	0000000100	0 0 0 0 0 0 28 0 0	0000000400	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0 0 0 0 1 0 0	0000100400
11 12 13 14 15 16 17 18 19	0 0 3 0 0 7 0 0 0	000000000	0020080000	000000000000000000000000000000000000000	3 0 0	0 0 1 1 0 0 0 0 0	000000000	000000000	000000000	000000000	0000000000	000000000	0000000000	0000000000	000000000	000000000	0230000000	29	42:0000000	31 000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	0900100000	04:01:00:00	0 7 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 1 1 0 0 1 1 0 4 1 6	00010090211	0000006013	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010002008	0 0 0 1 0 0 1 0 2 8	0012001066	0 6 5 0 2 0 5 3	0 4 5 0 0 4 0 3	0023003050	0033001080	004400000000000000000000000000000000000	0 7 8 0 0 0 20	0 0 12 9 0 0 0 0	0 0 0 0 0 6 3	000000000000000000000000000000000000000	0 0 11 2 0 1 0 7 16 5	0 0 16 2 0 21 0 3 7	0 0 29 0 0 25 0 1	10001902185	0 1 4 0 0 1 9 0 4 9 6	0 2 0 0 17 0 7 20 6	0 1 0 0 14 0 7 9	0 6 2 0 5 2 1 8 5
31	4	4	,	0	0	0	0	0	0	0	0	0	0	4	6	13	,	2	1	0	1	U	U		2
MEAN	2	1	4	1	1	٥	1	1	1	1	1		1	2	2	1	2	2	3	3	2	2	2	1	1.4

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID . 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - D.CI PARTS MILLION

	STA	TION	NE.	NO	77001	F	ENAGE	SUDI	BURY	AIRSHE	0					I: JN	тн - ,	1FR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	000004	0000040000	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 1 1	0001000000	000000000	00000000	001000000	000000000000000000000000000000000000000	00000000	0000000000	0000000000	000000000	0000000	0 0 1 1 0 0 2 0 0	0 0 0 0 0 0 0 1 1 1 1	0000000000	000000000	000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0
11 12 13 14 15 16 17 18 19	0 0 1	0001	0	0 0 1	0	0 0 0	0	0000	0000	0	000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	AVAILA AVAILA AVAILA	BLE BLE BLE	•	000.	000.	0	0	000	000.	0	1	0
21 22 23 24 25 26 27 28 29	. 0 0 3 0	0000	0 0 0 2 0	0 0 0 2 0	0 0 1 2 0	0 0 1 1 0	2.02	002	0 1 1 0	0 2 2 2	0 4 3 0	- DATA - DATA - DATA - DATA - O	0 1 2	0 3 2	3 3	. 0 15 1 6 .	0 0 13 1 5 .	C 0 ! ! 4 .	0 0 0 4 .	0 0 0 3 2 .	0 0 0 6 1 .	0 0 1 7 0 .	00050	0	0 2 2 2 2
MEAN	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 60.6 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 38.8

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	· 5	ULPH	UR DIC	301 xC								UNIT	s - o	C1 PA	RTS/N	ILLLIO	N						
	STA	TION .	NE	NO	77001		PENAGE	SUDE	BURY	AIRSH	ED					MON	(TH -	KAY	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1												- DA	TA U	IAVAL	LABLE	9							545		
2	0					0	0	0	0		0	0		0	0	0	0	0	1	1	1	0	0	0	
4	ŏ	ŏ	000	0	Ö	0	0	0	0	0	0	0	o	0	ŏ	ő	ŏ	ŏ	ŏ	ò	i	3	2	2	ŏ
5	1	1	0	0	0	0	0	0	0	0	0	ALTON DOLLAR		INVA		****	• • • •	• • • •	••••	••••		• • • •	• • • •	••••	
7	••••	••• ••						•••					****				O	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0
		-		-	(35	-	-	-		-					_			-	-	-	-	180			
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	00	0	0	0	0	0
13	ŏ	ŏ	0		ŏ	ŏ	ŏ	ŏ		0	ō	0	0	0	0	0	ō	ŏ		ŏ	0	0	0	0	0
14	0	0	0	0000	0	0	0	000	0 0 0	0	0	0	0	0	0	0	000	000	000	0	0	0	0	0	0
16	ŏ	0	ŏ	ŏ	0	ŏ	ŏ	0	ŏ	0	ŏ	0			0	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	0	ŏ	ŏ	ŏ
17 18	0	0	0	0	0	0	000000	0	0	0	0	0	0	0	0 0 0 0	0	0 0	0	0	0	0	0	0	0	0
19	ő	ŏ	0	0	0	0	0	0	0	0	0	0	6	10	9	4	5	3	5	6	0	1	1	- 1	2
20	0	0	o	0	0	0	0	0 4	•••	0	0	0	0	0	9	0	0	0	0	Ō	ō	0	0	0	0
21	0	0	0	0	0	0	٥	0	٥	0	0	0	0	0	0	0	0	0	٥	٥	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	9	0	0	0	000	0	0	0
25	ŏ	ŏ	0	0	ŏ	0	4	3	ŏ	0	o	ŏ	ō		0	0	12	0	ō	ō	0	ŏ	0	ō	ō
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 28	ŏ	ŏ	ŏ	0	0	٥	0	ő	0	ŏ	4	14	22	8	22	20	15	4	4	4	11	10	9	5	
29	2	1	1	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0
30	٥	0	0	0	0	0	0	0	0	0	0	0	••••	••••	1	1	1	2	,	1	1	1	1	٥	0
31	0	0	0	0	٥	٥	0	0	0	٥	0	υ	o	0	O	U	U	Ü	υ	0	U	U	U	U	v
MEAN	0	0	0	0	0	0	0	0	0	0	0	1	1	1	•	4	1	1	1	1	1	3	1	0	0.5

PERCENTAGE OF DATA VALID - 87.1 PERCENTAGE OF DATA INVALID - 7.9

PERCENTAGE OF DATA UNAVAILABLE - 5.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIGE PENAGE SUDBURY AIRSHED MONTH - JUN STATION - NE NO 77001 24 MEAN HOUR 00000-0000 13 0 0 0 0 0 0 0 0 1 2 3 4 5 6 7 8 9 10 000000-000 000000-000 000000-000 000000-000 o 12 13 14 15 16 17 18 19 20 CATA DATA DATA DATA O O INVALID INVALID INVALID INVALID O O 00000-00000 22 23 24 25 26 27 28 29 30 000000:000 00000-0000 0000-0000 00000-0000 G 0.1 n o MEAN

PERCENTAGE OF DATA VALID - 81.3

PERCENTAGE OF DATA INVALID - 18.8

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- s	ULPHL	IR DIO	X I DE							1	JNITS	- 0.0	1 PAR	TS/MI	LLIO	4						
	STA	TION -	NE	NO 1	7001	P	ENAGE	SUDB	URY	AIRSHE	D					A:ON T	H - J	UL	80						
HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0000100000	0000-00000	0000100000	000000000	0 0 0 0 1 0 0	000000100	0000001000	0000000000	000000000	000000000000000000000000000000000000000	0000000000	0000000000	000000000		0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000	0000000000
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 1	000000000	000010000	0000100001	00000000	000000000	0000000000	000000000	0000000000	000000000	000000000	000000000	0000000000	000000000	00000000	000000000	000000000	000000000	0000000000	0000000000	0:0000000	000000000	000000000	000000000	0000000
21 22 23 24 25 26 27 28 29	10000	1 0 0 0 0 1 0 0 0	1000001011	000001000	00000120000	0000041100	0000000000	0000011000	000000000		000000000	0000000	0 8 0 0 0 0 0 0 0 0 0	020000000000000000000000000000000000000	0 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 1 0 0 0 4 0 0 0 0	0 0 0 0 0 0 0	100000	0 0 0 0 1 0 0	0 0 0 1 1 0 1 1 0 0	0 0 0 1 1 1 0 1 0	0000011100	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31	1	1	1	1	0	0	0	٥	0	0	0	0	0	0	0	0	0	٥	0	0	0	1	0	1	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID . 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 3/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS . G. DI PARTS/MILLION STATION . NE NO 77001 PENAGE SUDBURY AIRSHED SONTH - ALG HOUR 24 MEAN 1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 18 19 20 .. 000000-000000-000 22 23 24 25 26 27 28 29 30 .. ... 00000-0000 000000-000 000000-000 -00000 0000-000 -0000000 n o o C 0.1 MEAN 

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXICE MONTH . SEP PENAGE SUDBURY AIRSHED STATION - NE NO 77001 24 MEAN HOUR 2 3 4 5 6 7 8 9 00-0 -00000 0000-00000 0000-00000 0000-00000 12 13 14 15 16 17 18 19 20 20-00000 ¢ 0-00000000 22 23 24 25 26 27 28 29 30 0-000000 00000.0000 00000.0000 000000-0.2 MEAN 

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

INTE . A AT DESTS /MILLION POLLUTANT - SULPHUR DICKIDE PENAGE SUBBURY AIRSHED MONTH - OCT 80 STATION - NE NO 77001 HOUR 0000-000 12 13 14 15 16 17 18 19 -00000-000 22 23 24 25 26 27 28 29 30 0.1 C MEAN 

PERCE! TAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	- 5	EULPH	UR DIQ	XIDE							U	NITS	. 0.0	1 PAR	RTS/MI	LL101	4						
	STAT	ION -	NE	NO	77001		PENAGE	SUOBL	RY	AIRSHE	D					MONT	H - N	OV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	AN
1 2 3 4 5 6 7 8	000000000	000000000	000000000	0000000000	00000000	000000000	0000004000	000000000000000000000000000000000000000	0000000000	000000000	000000000	000004000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	0000000100	00000000000	000000100	000000000	0 0 0 0 1 0 0
11 12 13 14 15 16 17 18 19	000000000	000000000	0000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000	00000-0000	0000000000	0000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000	00000000
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	000000000	00000000	000000000	0000000000	000000000	0000000000	000000000000000000000000000000000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	00000000000	000000000	00000000	0000000000	000000000	0000000000	000000000	0000000000	000000000
MEAN	0	0	0	0	0	0	0	0	0	0	0	O	0	0	O	0	O	0	0	0	0	0	0	O	0.0

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID . 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - O DI PARTS, MILLION WONTH - DEC PENAGE SUDBURY AIRSHED STATION - NE NO 77001 24 MEAN HOUR 2 3 4 5 6 7 8 9 000000-050 000-00-050 000000-0NO 0-000000-0 30-323 0000-0000 0000-0-0000 0000---0000 0000-00000 00000-0000 0000-00000 00000-00000 COCCUMENCO 00000-0000 0000000-00 000000-00 

PERCENTAGE OF DATA VALID - 99.7

0 0

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0 0

0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE	NO 77001 PENAGE	SUDBURY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.6	8	43
FEB	29	1.0	5	34
MAR	31	1.4	8	42
APR	17	0.4	2	15
MAY	26	0.5	6	22
JUN	24	0.1	2	13
JUL	31	0.2	2	12
AUG	31	0.1	Ť	6
SEP	30	0.2	Ť	5
OCT	31	0.1	2	17
NOV	30	0.0	1	8
DEC	31	0.3	3	12
YEAR	342	0.4	В	43

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXICE

UNITS . O CT TARTS DILLICK

NONTH ON TO 05										
JAN 721 12 6 1 0 2 1 0 743  FEB 668 18 3 2 3 1 C 0 695  MAR 678 34 14 11 2 4 1 0 744  APR 429 5 2 0 0 0 0 0 0 436  MAY 632 9 4 1 2 0 0 0 0 648  JUN 583 1 1 0 0 0 0 0 0 585  JUL 737 3 1 0 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 742  DEC 734 6 2 0 0 0 0 0 0 742	STATION - NE	NO 770	Ot PENA	GE SUDBURY	AIRSHED					
FEB 668 18 3 2 3 1 C 0 695  MAR 678 34 14 11 2 4 1 0 744  APR 429 5 2 0 0 0 0 0 0 436  MAY 632 9 4 1 2 0 0 0 0 0 648  JUN 583 1 1 0 0 0 0 0 585  JUL 737 3 1 0 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 720  DEC 734 6 2 0 0 0 0 0 0 742	MONTH O	Q TO 05	06 TO 10	11 TO 15	16 70 20	21 TO 25	26 10 39	40 10 49	50 SCVER	TOTAL
MAR 678 34 14 11 2 4 1 0 744  APR 429 5 2 0 0 0 0 0 0 436  MAY 632 9 4 1 2 0 0 0 0 648  JUN 583 1 1 0 0 0 0 0 0 585  JUL 737 3 1 0 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 744  OCT 740 2 1 1 0 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 0 742  DEC 734 6 2 0 0 0 0 0 0 742	JAN	721	12	6	1	0	2	1	٥	743
APR 429 5 2 0 0 0 0 0 436  MAY 632 9 4 1 2 0 0 0 648  JUN 583 1 1 0 0 0 0 0 0 585  JUL 737 3 1 0 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 744  OCT 740 2 1 1 0 0 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 0 742  DEC 734 6 2 0 0 0 0 0 0 742	FEB	668	18	3	2	3	ť	c	0	695
MAY 632 9 4 1 2 0 0 0 648  JUN 583 1 1 0 0 0 0 0 585  JUL 737 3 1 0 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 744  OCT 740 2 1 1 0 0 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 0 742  DEC 734 6 2 0 0 0 0 0 0 742	MAR	678	34	14	11	2	4	1	0	744
JUN 583 1 1 1 0 0 0 0 0 585  JUL 737 3 1 0 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 744  OCT 740 2 1 1 0 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 0 742  DEC 734 6 2 0 0 0 0 0 0 742	APR	429	5	2	٥	٥	0	0	o	436
JUL 737 3 1 0 0 0 0 0 741  AUG 737 1 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 714  OCT 740 2 1 1 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 720  DEC 734 6 2 0 0 0 0 0 0 742	MAY	632	9	4	1	2	0	٥	o	648
AUG 737 1 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 714  OCT 740 2 1 1 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 720  DEC 734 6 2 0 0 0 0 0 0 742	JUN	583	1	1	0	0	0	0	0	585
AUG 737 1 0 0 0 0 0 0 738  SEP 714 0 0 0 0 0 0 0 0 714  OCT 740 2 1 1 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 720  DEC 734 6 2 0 0 0 0 0 0 742	JUL	737	3	1	0	0	0	0	0	741
SEP 714 0 0 0 0 0 0 0 0 714  OCT 740 2 1 1 0 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 720  DEC 734 6 2 0 0 0 0 0 0 742				0	0	0	0	٥	0	738
OCT 740 2 1 1 0 0 0 0 744  NOV 718 2 0 0 0 0 0 0 720  DEC 734 6 2 0 0 0 0 742			0	0	0	0	0	٥	0	714
NOV 718 2 0 0 0 0 0 720 DEC 734 6 2 0 0 0 0 742						0	0	0	0	744
DEC 734 6 2 0 0 0 0 742				•			0		0	720
DEC 734 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOV	718	2							
YEAR 8091 93 34 16 7 7 2 0 8250	DEC	734	6	2	0	0	0	0	٥	742
	YEAR	8091	93	34	16	7	7	2	0	8250

FREQUENCY DISTRIBUTION BY PERCENTILES
PERCENT
OF DATA
VALID MIN 10 CCNCENTRATIONS
FREQUENCY DISTRIBUTION, PERCENT
50 70 90 95 ARITH MEAN 98 99 30 0.4 0.0 0.0 0.4 8.7 43 0.0 0.0 1.5 4.8 0 93.9

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	- S	ULPH	UR DIO	KIDE								UNITS	. 0.0	31 PA	RTS/MI	LLION							
	STA	TION -	NE	NO	77009		BURWASH	SUDBI	JRY	AIRSH	ED					#ON	тн	IAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	1.3	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6	000022000	0 0 0 1 2 0 0	00001200	00000210	0 0 0 0 2 1 0	000003-0	0 0 0 0 3	01000000	00000000	00006.00	00002200	1 0 1 0 1 3 1 0 0	12 10 0	4 0 3 4 1	1 5 4 0 0	1 4 1 3 2 0 0 0	3 0 3 1 0 0 0	0 2 0 3 1 0 0 0	0 1 0 5 3 0 0 0	1 0 5 3 0 0 0	1 6 0 5 3 0 0	0 6 0 4 3 0 0 0	0 1 0 3 3 0 0	0 0 0 3 2 0 0 0	1 0 2 3 1 0
9	0	0	0	0	0	0	0	0	000	0	0		••••		1	0	0	0	0	0	0	0	0	0	0
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000-0000-0	1 0 0 1 0 0 0 0 1 0	100100000	000000000000000000000000000000000000000	1 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 1	0001000001	00000000	0000000	0 0 0 0 0 0 0 0 1	0000000000	000000000	0000000000	00.020000	00.000000	000000	00.0100000	00.0000000	00-0000000	00.0000000	00.0000100	00:000-00	00:000000000000000000000000000000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	3 0 1 13 0 1 0 0 0	20001001000	1014100100	1 0 0 0 0 0	0010100010	0 0 0 0 1 0 0 0 1 1 2	0 0 0 0 1 0 0 1 1 4	000000003	0000	2 0 3 1 0 2 1 0 0 0 0	0045221000	0 16 2 3 2 2 1 0 0	30321100	0 0 1 0 2 2 1 1 1 0	000132210	0020022000	0 0 2 1 0 1 2 0 2 0	0 0 1 2 0 2 0	0 0 0 1 0 1 2 0 0 0	0 0 1 1 1 2 1 0 0	0 0 1 0 2 0 1 3	0 0 0 0 1 0 2 0 1 1	0 0 0 0 1 0 2 0 1 0	2 2 1 1 1 1 1 1
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	7	1	1	5	1	1	3	1	1	1	0	0	0.7

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. ..</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - O.C. PARTS, MILLION

	STA	TION .	NE	NO	77009	Ē	BURWASH	SU	DBURY	AIRS	HED					MONT	(H · F	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.4	12	13	1.4	15	16	17	18	19	20	21	22	23	24 MI	EAN
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	00000111100 0000000000	0000011000N 0000040000 0	0000011130002	00001122002 0000030000 0	000001332002 0000010000 0	000000000000000000000000000000000000000	00000121101	000001332101	1	0 0 0 0 0 0 0 0 0 0 0 0	-000	0015014013 0601030000 0	0011019021 0801090000	00000181114 0306030000 0	0000015010 0101000000 0	0100304022 0004010000 0	0-0-000004+ 0000000000 0	300-800-18 C0008000000	0001809-4N 0000N90000 0	0001803031 0000400000 0	0001601100 0000500000 0	0006801:20 0000400000 0	00055-1000 0000500000 0	000000000000000000000000000000000000000	0000131010 01000000
22 23 24 25 26 27 28 29	0000-000	00001000	0 1 0 0 1 0 0 0	0 1 0 0 0	01001000	0 1 0 0 0	0 1 0 0 0	0 0 0 1	000	0 1 0 0	0	00000000		00000	000000	000000	0000004	000010000	00000000	0 0 0 0 0 0	00001	0 0 0 0 0 0 0 1	0000	0000-0000	0000000
MEAN	0	0	1	0	0	C	0	0	0	0	0	1	3	1	2	1	1.	1	1	1	1	1	1	0	0.6

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.9 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	· s	ULPH	UR DIO	XIDE								UNITS	. 0	01 PA	RTS/#1	LLION	4						
	STAT	ION -	NE	NO	77009		BURWASH	SUC	BURY	AIRS	HED					MON	TH - N	AAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	000000000	000000000000000000000000000000000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000010	0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 1 1 0	0 0 0 0 1 2 0	000000000000000000000000000000000000000	1 0 0 28 0 0 1 0	21 00 00 17 00 50 0	38 0 0 0 23 0	100000000000000000000000000000000000000	00006000000	000000000000000000000000000000000000000	00000000000	0000000000	000000300	0 0 0 0 0 4 0 0	000000400	3000
11 12 13 14 15 16 17 18 19	0010000400	00-0000000	0000000000	000000000	000000000	000000000	000000000	000000000	000000000	0000000	0000	0005000000	0004000000	030000		020200000	030500000	030800000	0,0000000	0201000000	0-05000000	010100000	0-0000-000	0.0000000	0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29	1000493000	1000172000	100000	1000012000	000000000000000000000000000000000000000	10000	0000	1000030000	0 0 0 0	0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	6 0 0 0 1 0 1 0 0	0300820400	000000000000000000000000000000000000000	0 9 0 1 9 11 	9 0 1 1 9 0 0 0	0 0 0 0 0 0 0 0 0	0 2 0 1 6 7 0 0 0	0 6 0 1 13 6 0 0 1 0	0101140020	0 1 0 6 0 4 0 0 2 0	0 0 0 2 0 4 0 0 1 0	0 0 0 0 0 0 0 0	3 5 1
31 MEAN	1	1	0	0	0	0	0	0	0	0	0	0	1	2	3	4	1	1	0	1	0	1	0	0	0.8

PERCENTAGE OF DATA VALID - 97.7

PERCENTAGE OF DATA INVALID . 2.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 FARTS, MILLION

														H-11/1/1-11/1-11/1-11/1-11/1-11/1-11/1-				*							
	STA	TION	. NE	NO	77009		BURWAS	H SL	JOBURY	AIR	SHED					WON.	TH	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	1.3	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1	0	0	0	0	0	0	0	0	0	0	0	0	8	2	2	٥		1	1	1	1	1	1	1	1
2	8	0	0	0	0	0	0	0	0	0	0	0	0	1	••••	0	0	0	0	٥	0	0	0	0	0
3	0	0	0	0	0	0		0	0	••••	0	٥	0	0	O	0	o	0	0	0	٥	0	0	ŏ	č
4	0	0	0	0	0	0	0	0	0		٥	0	٥	0	٥	0	٥	0	0	0	0	0	0	0	ŏ
5	0	0	0	0	0	0	0	0	0	••••	0	0	0	0	0	0	c	0	0	0	0	0	C	o	ŏ
6	0	0	0	0	0	0	0	0	0		0	0	٥	0	0	0	O	C	0	0	0	0	0	ŏ	0
7	0	0	0	0	0	0	0	0	0	••••	0	0	0	0	0	0	0	0	0	0	000	0	ő	ő	ŏ
	0	0	0	0	٥	0	0	0	0		••••	٥	0	0	0	0	0	o	0		0	ő	ŏ	ŏ	ĕ
9	0	٥	0	0	0	0	٥	0	0		0	٥	0	0	• • • •		0	0	0	0	ò	ŏ	ő	ŏ	ŏ
10	0	٥	0	0	0	0	0	0	0	****	0	0	0	0	0	٥	Ģ	0	0	0	o	0	U	U	v
11	0	0	0	0	0	0	0	0	0	••••	0	0	0	0	٥	0	٥	0	0	0	0	0	0	0	0
12	0	U	U	0	U	U	0	0	0		٥	U	Ú	٥	ن	Ç	•	1.	•	Ç	٥	2	0	9	2
13	0	0	0	0	1	1	9	4	4		12	18	14	13	18	15	3	3	0	0	0	0	0	ő	2
14	0	0	0	0	0	0	0	0	0			0	0	٥	0	0	0	0	0	0	٥	0	4	5	·
15	0	0	0	0	0	0	0	0	0		****	0	0	. 0	0	0	1	2	3	1	1	2	1	?	
16	3	3	9	3	1	2	3	3	\$		3	2	3	****	1	1	0	0	0	1	0	0	ò		ź.
17	1	1	2	1	1	0	0	0	0		0	0	0	0	0	•	O	0	0	0		ŭ		0	3
18	0	0	٥	0	1	0	0	5	8		0	0	0	1	4		4	8	3	0	0		0	ŏ	
19	0	٥	0	0	0	0	1	1		0	0	0	0	0	0	0	9	0	0	0	0	0	0	ŏ	š
20	0	0	0	0	0	1	7	6	3	• • • •	2	0	0	0	2	11	9	3	0	0	0	O	U	U	•
21	0	0	0	0	0	0	0	0	0	••••	7	3	0	0	2	6	7	2	0	1	1	1	0	0	1
22	0	0	0	0	0	0	0000	0	0	• • • •	0	0	0	0	0	٥	0	٥	0	0	0	0		Ÿ	ž
23	0	0	0	0	0	0	٥	0	0	• • • •	0	0	0	0	0	3	7	20	11	8	2	- 1	.0	10	
24		1	0	0	0	0		0	0		0	0	0	0	0	0	6		0	3	8	9	10	10	2
25	7	4	2	1	1	1	1	٥	1	••••	0	0	1	5	2	2	ő	2	o	1	0	0	×	2	á
24 25 26 27	0	0	0	1	1	0	0	0	0	****	0	0	0	0	0	0	0	0	0	0	0	0 0 0	0000	ő	õ
27	1	0	0	0	0	0	0	0	0		0	0	0	0	000	ő	ŏ	0	0	0	ŏ	ŏ	0	ŏ	ŏ
28	0	0	0	0	0	0		•••	0		0	ŏ	ŏ	0	Č	ő	ŏ	ŏ	ŏ	ŏ	ő	Ö	ŏ	ŏ	ŏ
29	0	0	0	0	0	0						0	ŏ	0	ò	ő	ŏ	ŏ	ŏ	ŏ	o	ŏ	ŏ	ŏ	0
30	0	0	0	0	0	0	0	٥	٥	٥		,,-	٠	U	0	U		U			-				
MEAN	1	0	0	0	0	0	1	1	1	0	1	Ť	1	1	1	1		1	1	1	0	1	1	1	0.7

PERCENTAGE OF DATA VALID - 94.6 PERCENTAGE OF DATA INVALID - 5.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	٠ \$	ULPH	UR DIO	XIDE							ı	STINL	- 0.0	1 PAR	RTS/MI	LLIO	N						
	STA	TION -	NE	NO	77009		BURWASH	SUDBI	URY	AIRSH	EO					r.on1	TH - N	MAY	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0 0 0 0 1 0 7 0 0	0 0 0 0 3 0 3 0 0	0110040700	0010000400	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0101001100	000-02-220	0000130000	0 0 0 1 3 0 4 0 0	0000022-200	000000	0 1 2 0 7 0 1 1 0 0	0010400000	0 1 0 0 1 0 0 4 0 0	0010002600	0110020200	0 1 1 0 2 0 0	0120000001	0001200001	0010000001	0020100000	00-060000:	001010400
11 12 13 14 15 16 17 18 19	0 0 0	100200000	100400000	006000000	1 0 0 7 0 0 0 0 0	100200000	000000000	00001120000	0000111000	0 1 2 1 0 0	0 2 1 11 14 1 0 0	10 5 0000	20024	1 0 5 0 0 0	0000-0000	14030000	18000000	00000000	60000	0000000000	000000000	000000000	0000000000	000000000	00000
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000	00000040-0	0000004000	0000004000	0000006000	000004000	000000010	0-00	0 2 0 0 0 1	000000000	0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 1	0 0 0 0 2 14 0 0 1	00001	000000000	000-000000	000001000	0000000000	00000001	000000001	0000000000	0000100000	0000000000	00010000
31 Mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . D. DT PARTS MILLION

	STA	TION	- NE	NO	77009		BURWAS	H SUI	BURY	AIRS	HED					MON	тн -	CUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	300000000000000000000000000000000000000	200000000	0 0 0 0 0 0 0 0	100000000	4 00 00 00 00 00 00 00 00 00 00 00 00 00	4000000000	000000000000000000000000000000000000000	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3010000040	000000000000000000000000000000000000000	3 0 1 2 2 0 3 3 5 0	9061202560	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000001340	0001000100	00000000	0 0 0 0 0 0 7 2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 0 0 0 5 3 7	0021000148	0001000011	000000040	0 0 1 0 0 1 0	000000000	201100000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	0	00000000	0 0 0 0 0 0 0 0 0	0001200000	0000	0001000000		000000000000000000000000000000000000000	ŏ	0 0 0 0 5 0 0 0 0	3 0 0 1 0	30000.0302	0000020302	000000000	0000000000	0 0 1 0 0 9 0 2 0 3	0000080101	0000050201	0000000000	001000000	0020100001	0021400001	0 0 2 2 1 0 0 0 0 1	0 2 2 7 0 0 0	3000120101
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0	0000000000	000000000	0000000000	000000000000000000000000000000000000000	000000000		000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 1	000000000	0000001	00000001	00000000	00000000	0000000	00000	0000000000	000010000	000000000	0001000000	0000000000	000000000	0 0 0 0 0 0 1
MEAN	0	0	٥	0	o	0	0	٥	1	0	1	1	1	0	0	1	1	i	1	1	1	0	0	0	0.5

PERCENTAGE OF DATA VALID - 97.9 PERCENTAGE OF DATA INVALID - 2.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES GRANCH

	PO	LLUTANT	- 3	SULPH	HUR D	OXIDI	E							UNIT	. 0	.01 PA	RTS/N	ILLIC	N						
	ST	ATION -	NE	NO	7700	9	BURWA	SH S	UDBURY	AIRS	HED					, KON	ITH -	JUL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	**	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	••••	0	0	0	0	0	0	0		0	0	0	0	0	8 0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	3	Ö	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	ŏ	0	4		2	2	2	0	0	ŏ	×	0000	ŏ	0	0	ŏ	0000	ŏ	Ÿ
- 2	ŏ	o o	o	ă	ŏ	0	ŏ	ő	ō	0	ő	ő	á	9	1		0	ă	ő	. 0	ő	ŏ	ŏ	ě	ó
ă	ĭ	ŏ	ŏ	00000	o	ő	00000	ŏ		ŏ	õ	4	6	3	ò	ŏ	00000	ŏ	ŏ	0	ŏ	00000	ŏ	č	ĩ
7	ò	0	Ď	ō	0	0	ō	õ		ō		0	ō	ŏ	õ		ō	č	- 1	1	1	ō	ō	ō	o
8	0	0	ō	0	0	0	0	0		0	0	0	0	0	J	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0		0	• • • •			••••				• • • •						••••	
10	****		•• •	• • • •	••••	• • • • •	****	••••	,	••••	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*****
11	0	0	0	0	0	0	0	1	0	****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0		o		ō	ō	0	0		0	o	ŏ	ŏ	ō			0	ō	ō		ō		o	ō	ŏ
13	0	000000	0	00000	0	0	0	0	0	1	0	U	0		00000	Ü		U	U	0000	v	Ü	000000	ò	0
14	0	0	0	0	0	0	0		0	0	0	0	0	000	0	0	0	0	0	0	0	0	0	0	0
15	0	0	000	0	0	0	0	٥	000	0	0	0	0	0	0	0	0	0	0	0	ō	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
17	0	0	0		٥			0		0	0	٥	0	0			300000	0	0	0	0	0	٥	٥	o
18	0		0	0	0	0	0	1	0	1	0	0	0	0	0	0	ó	0	0	0	0	0 30000000	0	0	9,
19	0	0	.! .	!	1	0	0	0	0	0		0			0	0	0	0	0	0	0	0	0	0	
	0	0 **	•••		••••	••••				••••							U	0	0	0	0	O	0	0	
21	0	0	0	0	0	0	0	••••		••••	1	٥	0	0	0	0	0	0	0	2	1	0	0	0	0
22 23	0	000000	0	0	0	٥	0	0		0	0	000000	0 0 0 0 0	0	0 5 0 0 0 0 0	0	000000	000000	1	3	0	000000000	000000000	0	. 0
23	0	0	1	1	0000	0	00000	0		••••	0	0	2	6	5	1	0	0	9000	4	1	0	0	0	1
24	0	0	0	0000	0	0 0 0	0	0		0	0	0	0	0 0 0 0	ō	0	0	0	0	00000	0	0	0	000	0
20	0	ŏ	0	0	ŏ	ŏ	ŏ	0	0	Ö	0	ŏ	0	ŏ	ŏ	ŏ	ŏ	0	ŏ	ŏ	0	ŏ	0	ž	Š
20	ŏ	ž	0	ŏ	0	ŏ	ŏ	o	0	0	ŏ	ŏ	ŏ	ŏ	0	0	ŏ	ŏ	č	0	0	ŏ	ŏ	ŏ	ŏ
28			٠				٠			• • • •	ő	ő	ŏ	ő	0	Ö	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ő	ŏ	
29	ō	٥	0	0	0	0	0	0	0	0	ŏ	ŏ	ŏ	ŏ	ő	ŏ	4	ĭ	0	ŏ	ŏ	ŏ	ŏ	ŏ	0
25 26 27 28 29 30	ō	ŏ	ŏ	0	0	ō	ō	ŏ	ŏ	ō	0	2	8	0	ō	0	0	0	ō	ō	ŏ	o	o	ō	o
31	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	1	1	1	1	0	0	0	0	٥	U
MEAN	0	0	0	0	0	0	0	0	٥	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 92.3

PERCENTAGE OF DATA INVALID - 6.5

PERCENTAGE OF DATA UNAVAILABLE . 1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE CONTH - AUG 80 STATION - NE NO 77009 BURWASH SUDBURY AIRSHED 24 MEAN 19 20 21 22 23 11 14 15 16 17 18 10 12 13 HOUR 7 R • 00000000-0 0000000051 1 2 3 4 5 6 7 8 9 10 00000000-0 0000000000 0000000000 0000000000 0000000000 0000000000 0000000001 00000000-0 0000 c • 0 2 0 0 0 0 0 0 0001400000 110000000 02-00000-0 000000000000 02-0050000 0310010000 11 12 13 14 15 16 17 18 19 20 0000000000 0-00000000 0-00000000 0100030000 0 2 03009000-0 0000-00000 00001 .00000000 . 00: 0000 10000000 0200030 00000 0 18 3 0 0 0 0 0 0 1 0-00000000 0+00000000 0100000000 0300000000 0040000001 0540000000 0420000000 000000000 0100000000 21 22 23 24 25 26 27 28 29 30 0000000000 0000000000 0000000000 0000000000 0000001000 00-000-000 00-0000000 0000000000 060000 0000000000 0000000000 0 0 0 0 O ٥ 0 0 0 31 0 0 0 0 0 2 n 0 0 0.4 0 n 0 0 ٥ 0 n MEAN ٥ ٥ ٥

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	UTANT	. ;	ULPH	UR DIO	301x							L	INITS	• 0.0	1 PAR	14,21	LLIO	N						
	STAT	TION -	NE	NO	77009		BURWASH	SUO	BURY	AIRSH	ED					MONT	H - S	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		EAN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	0000000000	000000000	0000000000	000000000	0000000000	0000	0	000-040000	0 0 3 1 0 1 1 1 0 0	0 0 3 1 0 0 8 2 10 0	0 0 0 0 0 1 1 2 0	0020002190	000001150	0010007010	0010001040	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	000000010	000000010	000000010	000000000	0 0 0 0 0 1 1 2 0
11 12 13 14 15 16 17 18 19	0000000000	000000000	000003000	0000000000	0	0000000000	0 0 0 0 0 0 0 1 0	0000100020	0000100010	0 0 0 0 0 0 0 0	0000-00000	0 0 0 1 1 0 2 0 1 1	000100000000000000000000000000000000000	0 1 0 1 0 2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	110010000	9 1 0 0 0 0 5 0 0 1	1 0 0 0 0 3 0 0 6	1 1 0 0 0 1 0 0 1	500000000	1000000000	000000000	000000000	000000000	0000
21 22 23 24 25 26 27 28 29	0 2 0 0 0 3 0 0 0	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	010000-000	0000000000	0 0 0 0	010000200	0100000100	000001200	000000	0 0 0 0 1 1 0 0	000000000000000000000000000000000000000	0021000800	0 0 4 0 0 0 0 1 0 0	20000100	0 0 1 0 0 15 0 0	0 0 0 0 5 0 14 0 0	0 0 0 0 3 0 17 0 0	0010040400	0000090800	00000000000	0000090300	0000010000	0000080+00	0 0 0 8 0 1 0 0	000000000000000000000000000000000000000
MEAN	0	0	0	0	0	0	0	0	٥	٥	1	1	1		2	1	2	1	1	1	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

POLLUTANT - SULPHUR DIOXIDE UNITS . O DI PARTS/MILLION BURWASH SUDBURY AIRSHED WONTH - OCT STATION - NE NO 77009 12 13 24 MEAN 0 1 0 0 0 0 4140 13 4 0 3 0 1 12 13 14 15 16 17 18 19 20 315:110000 00600-0000 00000-0000 10 10 1 0000 4200000 22 23 24 25 26 27 28 29 30 00000-004 0.9 MEAN

PERCENTAGE OF DATA VALID - 91.5

PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 5.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. " INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE							·	UNITS	- 0.0	01 PA	RTS/IL)	ILLIO	N						
	STA	TION .	NE	NO	77009		BURWASH	SUC	BURY	AIRS	HED					MON	TH - M	10 V	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5	000000	000000	020000	0500100	000000	0000000	0 0 0	200000	0000	1 0 0 12 0	2 1 0 5 0	0 0 3 0 0	000000	001000	1 0 1 0 0	0 0 0 0	0 0 0 0	00100000	0 0 1 0 0 0 0	00-000	0 0 0 0 0	00000004	0 0 0 0 0	000000	1 0 0 1
8 9 10	3	7	0	0	0	9	0	0	0		0	0	0	6	9 0 2	0	0	0	0	0	2 0	4 5 0	6	000	2 1 3
11 12 13 14 15 16 17 18	000100000	0001000010	0000000010	000000010	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 1 0 0 2 0	0002300010	0000	000000	00000	000000000000000000000000000000000000000	0 0 7 0 3 0 0	0009010000	0 3 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100010000	0 0 0 0 0 0 0 0 0 0	0 3 0 1 0 0 0 0 0 0 0	020100000	0 0 0 0 0 0 0 1	000000000	00000000	000000100	0.010000
21 22 23 24 25 26 27 28 29 30	0000000000	000000000	0000000000	000000000	0 0 0 0 0 0 0 0	0000600000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00006000-0	0 0 7	0000	0 0 1 2 5 0 0 0 0	0 0 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 3 5 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0	0 0 1 0 5 0 0 0 0	0000400000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0000000	00000000	000010000	100000	6 0 0 0 1 0 0 0 0	000000000000000000000000000000000000000
MEAN	0	0	1	0	0	í	ï	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	٥	0	0.5

PERCENTAGE OF DATA VALID - 97.8

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

UNITS - O CT PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - DEC STATION - NE NO 77009 BURWASH SUDBURY AIRSHED 24 MEAN HOUR 0-0-000041 2-00-00000 000000-040 2 3 4 5 6 7 8 9 000-0000-9 0-00-000 DATA INVALID 0 1 1 00-00 -0000 0 0 0 0 0 7 0 1 3 1 0 1 1 0 1 0 0 0-0 500400-000 00-002-0100000-00 0-15000110 0.8 a

PERCENTAGE OF DATA VALID - 92.6

MEAN

PERCENTAGE OF DATA INVALID . 7.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

STA

UNITS . D. O1 PARTS/MILLION

ATION - NE	NO 77009 BURWASH SUDBUR	Y AIRSHED		
				MAXIMUM READING
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	
JAN	31	0.7	3	16
FEB	29	0.6	3	31
MAR	31	0.8	5	38
APR	30	0.7	5	20
MAY	31	0.6	4	18
JUN	30	0.5	2	11
JUL	27	0.2	1	9
AUG	31	0.4	4	18
SEP	30	0.6	4	17
OCT	28	0.9	6	41
NOV	30	0.5	3	12
DEC	28	0.8	4	14
YEAR	356	0.6	8	41

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1983

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 FLATS/MILLION

STATION - NE	NO 7700	9 BURWA	SH SUDBURY	AIRSHED					
MONTH OO	TO 05	06 TO 10 1	1 TO 15 16	TO 20 21	10 25 26	TO 39 40	TO 49 50	SOVER	TOTAL
JAN	724	7	4	1	0	0	0	0	736
FEB	668	13	1	0	0	1	0	0	683
MAR	696	18	8	•	2	2	٥	0	727
APR	652	20	6	3	0	0	0	0	681
MAY	715	12	6	2	o	o	0	0	735
JUN	691	13	1	0	0	0	٥	0	705
JUL	681	6	0	0	0	0	0	0	687
AUG	727	8	2	1	0	0	o	0	738
SEP	694	14	7	1	0	0	0	0	716
ост	648	17	5	6	3	1	,	0	681
NOV	687	13	4	0	0	0	0	0	704
DEC	675	11	3	0	٥	0	٥	0	689
YEAR	8258	152	47	15	5	4	,	0	8482
EAR	0230								

FREQUENCY	PERCENT	ION BY	PERCENTILES				TRATIONS					ARITH
	OF DATA	MIN	10	30	FREQUENCY 50	70	90	95	9.9	99	MAX	MEAN
					• •	0.0		2 B	6.5	9 4	41	0.6

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	· 5	ULPH	UR DIOX	IDE						,	INITS	. 0.0	OI PAR	RTS, MI	LLION	N .						
	STA	TION -	NE	NO	77010	CALLU	M SUDE	BURY	AIRSH	ED					MON	rH - J	AN	80						
HOUR	1	2	3	4	5	6 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7	3	0 0 3 0 2	0 0 0 2 0 3 0	0 0 2 0 3 0	0 0 2 0 3 0	0 0 0 0 1 1 0 0 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 3 0		0 0 1 7 2 0	0 0 2 2 0	0 0 12 11 1	0 0 14 3 1 0	0 0 0 12 1 1 0	0 0 0 0	0016600	00744000	00335000	0 4 3 7 0	0 4 3 7 0	0 4 2 5 0 1	0 4 1 5 0 3	0 0 3 1 4 0 10	0 1 4 3 1
9	0	0	0	0	0	2 2 0 0 1 1	0	0		0 1 0	0	2	54 2 0	36 1 0	3 1 0	0 1 0	0	0	0	0	0	2	0	0
11 12 13 14 15 16 17 18 19	0000	100100000	100100000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0600000040	0400000000	000000000000000000000000000000000000000	0 0 0 1 1 0 0 0 1 0	3 3 0 0 0 3 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0011200000	0 0 1	0 0 1 1 0 0 1 0	0 0 1 0 0 0 0	00110010	0 0 1 0 0 1	0 0 1 1 0 0 1	0011000001	0 1 1 0 0 0 7 1	0 0 0 0 0 0 0 1 1	000000000000000000000000000000000000000	0 1 1 0 0 0 2 1
21 22 23 24 25 26 27 28 29 30	2	0 0 0 0 1 2 1 0 0	0000012130	00000011130	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	000000000		6 7 1 0 0	11 0 0 12 0 2 0 4 0 0	2 0 0 7 4 5 1 2 0 0	13101000	0 3 12 11 0 0 0	6 1 0 2 6 0 6 0	1 0 4 4 1 6 0 0 0	1 0 4 3 2 3 0 0	3 1 0 3 2 1 3 0	3 1 0 2 3 0 3 0	1 0 0 1 2 5 3 0	0 0 0 1 1 4 2 0 0 0	0011092000	0 0 2 1 0 5 1 0 0 0	20022332100
31 MEAN	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0 3	0	1	ں 1	0	0	0	ų.	1	1	1.1

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O.O. PERTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - FEB CALLUM SUDBURY AIRSHED STATION - NE NO 77010 24 MEAN HOUR 00000-1 2 3 4 5 6 7 8 9 10 13 0 2 1 21 0 2 C .00000 00000-0000 12 13 14 15 16 17 18 19 20 000-22 23 24 25 26 27 28 29 U U. 4 n a MEAN

PERCENTAGE OF DATA VALID - 99.1 PERCENTAGE OF DATA INVALID - 0.9
NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

PERCENTAGE OF DATA UNAVAILABLE - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

UNITS - 0.01 PARTS/WILLION POLLUTANT - SULPHUR DIOXIDE MONTH - MAR CALLUM SUDBURY AIRSHED STATION - NE NO 77010 24 MEAN HOUR 000000-400 00: 200-440 000400-000 0000000-0 000000-00 0005-0 0110000000--12 13 14 15 16 17 18 19 20 20000-0001 -000000000 00000-0000 60000-0300 22 23 24 25 26 27 28 29 30 0000-0000 a 0.6 MEAN 

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA !NVALID - 1.1

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O.O. PARTS, MILLION

	51	ATION	- NE	NO	77010	)	CALLU	M SU	BURY	AIRS	HED					1.0	NTH -	APR	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8	00000000	00000000	00010000	00000000	00000000	000000000	0 0 1 0 0 0 0	0 0 1 0 2 0 0 0	0 0 1 0 0 0	0 1 0 2 1 0	1 0 6 0 1 1 1 1	20401110	102020100	13 0 3 0 4 0	905020100	5 0 4 0 6 0 0 0 0	90-02000	0010000	300000000000000000000000000000000000000	00000000	00010000	00000000	0 1 0 0 0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0		0
10	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	ő		0	0	0	0	o	0	č	į
11 12 13 14 15 16 17 18 19	0	0000	0 0 1 0	0000			0 0 0	0000			000		DATA DATA DATA	I NVAL	1D - 1D - 1D -	3 0 4		0	0 0	0000			0 0			
21 22 23 24 25 26 27 28 29 30	2 0 0 0	20000	2 0 0 0	1 0 0 0	0000	0 0 0	00000	00000	0 1 0 0	00000	0000	00000	DATA DATA O O O	INVAL INVAL O O O O	ID - ID - O O O	0000	0000	0	26 0 0 0	17	7 0 0 1 0	6 0 0 1 0 0	4 0 0 0	3 0 0 0	0	9
MEAN	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	3	1	3	0	0	0	0.5	į.

PERCENTAGE OF DATA VALID - 59.7 PERCENTAGE OF DATA INVALID - 40.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PC	LLUTAN	T - 5	ULP	UR DIO:	XIDE								UNITS	· 0.	01 PA	RTS/MI	LL101	N						
	\$1	TATION	- NE	NO	77010		CALLUM	SUDBU	RY	AIRSHE	D					N'ON	TH - M	AY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	00000000	000000000000000000000000000000000000000	10000000	000000010	00000000	000000000	000000400	00000040	000000000	000000000000000000000000000000000000000	0 5 1 3 0 1	0 0 6 2 0 0	DATA 0 0 11 0 3 0 0 4	1 NVAL	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 0 1 0	0 0 3 0 1 3 0 2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000	0000002	00000000	0 0 0 0 0 0 0 2 1	0 0 0 1 0 0 0 1 1	0 0 0 1 0 0 0 1 1	0 0 1 0 0 1 0
11 12 13 14 15 16 17 18 19		00000	1000110000	0000110000	00000-0000	0000000000	0000000000	00004	000050000-	000000000000000000000000000000000000000	0010800001	50903	12 0 3 0 0 0 0 0	002020003	200000000000000000000000000000000000000	1 0 0 0 0	30000	0900140000	. 060000000	1000000000	0000000000	00000000	000000	00000	1 1 2 0 2 1 0 0 0 0
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000	1021000000	200000000000000000000000000000000000000	000000000000000000000000000000000000000	1 1 2 0 0 0 0 0 0 0	00000	0.000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 3 1 0 0 0 0 0 0 0 0	0 0 0	5 6 0 0 0 1 0 0 0	0 4 7 0 0 0 0 0 0 0 0 0 0	0 0 0 0	000000000000000000000000000000000000000	0 0 5 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000	1000000000	0000000	1200000000	000000000000000000000000000000000000000	20000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0 0.5

PERCENTAGE OF DATA VALID - 93.5

PERCENTAGE OF DATA INVALID - 6.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/WILLION

	POL	UTANT	. 5	ULPHL	JR DIOX	IDE	,							NILL	- 0.0		1137 63								
	STA	ION .	NE	NO T	77010		CALLU	M SUDE	BURY	AIRSH	EO				3	CONT	te - J	ILN	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20	21	22	23		ETN
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	000000100	000000000	00000000	000000-00	0 0 1 0 4	0 0 0 0 0 1 0 0	000000000	000000	000000000000000000000000000000000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0	0000101006	000000000	000000000	000000000	000000000	0000000000	0000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10 11 12 13 14 15 16 17 18 19	0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0.0010000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0		0 0.00000000	0.00000000		5 0000000000000000000000000000000000000	000000000000000000000000000000000000000	6	6 00000000000	2000010000	0000010000	. 000000000		00000-0000	0 0 1 1 0 0 0 0 0	010000000	010000000	0010000000	0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 0 0 0 0	0000000000	000000000	0000000000	000000000	0000000000	0 0 0		10002120001	00001160004	00021100003	4 0 0 12 1 18 0 0	1400000	10000	2 0 0 7 0 7 0 0 0 0	000000	00000000	000100001	0 0 0	1 0 0 0 0 0 3	00000000	000000001	0000000000	0000000000	100203000
MEAN	0	0	0	0	0	0	1	0	0	1	1	2	2	2	Ĭ	٥	0	0	0	0	٥	0	0	0	0.4

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 2.1

PERCENTAGE OF DATA UNAVAILABLE - 1.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. 5	ULPH	UR DIO	KIDE							U	NITS	· o.c	1 PAR	ts/mi	LL101	4						
	STA	TION -	NĒ	NO	77010	Ü	CALLUM	SUDBL	βRY	AIRSHE	D					MON	H - J	UL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ₩	
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0	00001300000	00000	00004	00004	0000100000	0010001000	0000000	0060001000		0000	0 0 1 7 1 0 0 0 0	0006000000	0000000000	0 2 0 1 0 0 0 0 0	0 4 0 0 0 0 1	000100000-	000100001	0 0 0 0 0 1	0 4 0 0 0 0 1 0 0 3	0 0 0 0 1 1 0 0 5	00000000	0000000001	0 0 0 0 0 1	1 0 0 0 0 1
11 12 13 14 15 16 17 18 19	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0000100000	0000100000		0000011000	0000011000	000000000	0000011000	000000000	000000100	0 0 1 0 0 0 0 0 0 0 0 0 0 0	00400000000	0020100090	600010	0060900012	0 0 2 0 3 1 1 0 0 5	0 0 1 0 2 1 0 0 1 4	0 0 0 0 2 1 0 0 0 3	0000020102	0 0 0 0 1 0 0 1 0	0000000	0001000000	0001000000	0 1 1 0 0 1 1
21 22 23 24 25 26 27 28 29 30	000000000	000000000	00000-0000	000000000000000000000000000000000000000	00000000	000000000	0000000000	1001000000	2002010010	2	0 0 0 2 0 1 0	0 0 0 1 1 0 0 16 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 2 7	00000000	0 0 0 0 0 0 0 2	0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0	0000100001	000000000	000000000	000000000	000000000	0000000000	0000000011
31 MEAN	0	0	0	0		0	0	0	1		0	0	0	0	0	1	1	1	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 99.1 PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS, MILLION

STATION - NÉ NO 77010 CALLUM SUDBURY AIRSHED MONTH - AUG 80

	STA	TION .	NE	NO	77010		CALLUM	SUD	RAN	AIRSH	D					MON	тн • ,	ALG	80						
HOUR	1	2	3	4	5	6	7	В	9	10	11	12	13	14	15	16	17	:8	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	000000000	000000000	000000000	000000000	000000000	0000000000	000000000	0000000000	190000000	0 5 1 0 0 0	2 0 9 11 0 8 0 0	1 7 0 1 0 0 16	2003030005	0 0 7 1 0 1 0 0 0 2	0000000000	0 0 7 1 0 0 0 0 1	00-00-000-	0-00000001	0220005000	000000100	000000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-000000700	0000000000	0 0 3 1 0 1 0 1 0 2
11 12 13 14 15 16 17 18 19	0000000000	000000000000000000000000000000000000000	00000000000	000000000	000000000	0000000000	0000000000	000000000	000000000	0 0 0 0 0 0	0 0 2 2 0 0 0 0 0 0	13 0 0 0 0 0 0	18000030	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0	0 30 0 0 0 0 0 8 0	0 0 0 - 0 0 0 0 - 0	0001000000	0 0 0 0 0 0 0 0 0	000000000	0 30 1 0 0 0 0 0 0	000000000	000000000	0012000010
21 22 23 24 25 26 27 28 29 30	0001000000	0001000000	000000000	0 0 0 0 0 0 0 0	0 0 8 0 0 1	0003001000	0 0 0 0 0 0 0	0000000	000900000	9 0 0 0 0	0 1 0 2 0 1 0 0 0 0	000-030000	0000060000	010205000	0013090000	4 2 0 6 0 0 0	000000000000000000000000000000000000000	042:000000	0220000000	0000000000	000000000	000000000	000000000	0000010000	0117070000
31 Mean	0	0	0	0	0	0	0	0	1	3	6 2	6	5	1	0	1	0	0	0	0	0	1	0	0	1 0.5

PERCENTAGE OF DATA VALID . 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1, \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

POLLUTANT - SULPHUR DIOXIDE UNITS . O.DI PARTS/MILLION STATION - NE NO 77010 CALLUM SUDBURY AIRSHED MONTH - SEP BO HOUR 9 10 11 12 13 14 20 21 22 23 2 3 4 5 6 7 8 9 NO0000000 12 13 14 15 16 17 18 19 20 +000-00000 0000-0000 0000-000 ó 22 23 24 25 26 27 28 29 30 ...0 .... 0000-0 0 0 0 0 0 0 0.5

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O OF PARTS/STEETON POLLUTANT - SULPHUR DIOXIDE WONTH . OCT CALLUM SUDBURY AIRSHED STATION . NE NO 77010 24 MEAN HOUR 0000-00000 0000--0-000000 1 2 3 4 5 6 7 8 9 10 0000-0 = 0 36 2 0 0 0 18 0000300-00 00008-0002 00000-0000 0-0000000-0 00000-00000 00000-00000-0000 12 13 14 15 16 17 18 19 20 000000-520 22 23 24 25 26 27 28 29 30 00000-0000 50000005-0 000005-000 0000000-00 ò n 0.8 MEAN 

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - NOV NO 77010 CALLUM SUDBURY AIRSHED STATION - NE 24 MEAN HOUR 48 1 1 21 2 12 9 0 0 6 1 0000-00000 0 10 13 0 0 11 1 0 000-00060-00060000-0 0 18 0 7 0 2 0 0 2 1 0000-00000 00000000-0 12 13 14 15 16 17 18 19 20 0--0000000 22 23 24 25 26 27 28 29 30 25 00-00000-00-0000 24 1 0 0 0 0 0 0 10110000-ū 0.3 MEAN 

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O OL PARTS/MILLION

	STA	TION .	NE	NO	77010	)	CALLUM	SUDB	URY	AIRSHE	D					NON	тн - (	DEC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8	000000024	00000000	100000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000100000	0000100000	0000-00010	0 1 0 0 0 0 0	0	000000000000000000000000000000000000000	3 0 0 0 0 0 0 0 0	9000000000	4 0 0 3 0 0 0 1 0 0	3 0 0 0	000000000000000000000000000000000000000	0000000000	000-000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	0001000030	0000040	0 0 0 0 0 7 5 0	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	0 2 2 2 0 0 0 0 0 0	1 2 1 1 0 0 0 3 0 1	1 2 1 0 0 1 0 0 1	1 2 1 0 1 0 1 0 0 1	1 2 0 0 1 1 1 0 0 1	1 2 0 0 1 1 1 0 0 1	1 3 0 0 1 1 1 0	2 3 0 0 1 1 1 0 6 1	2 2 0 0 1 1 1 0 1 1	0 0 1 1 0 0 0	4 1 0 0 2 1 1 0 3 0	13	30 1 16 3 1 1 0 0	8 0 0 4 1 1 0 0 0 0	5 0 0 5 1 1 0 2 0 1	13	1 0 2 1 6	100110115	0001	1 0 0 1 0 2 0 2 1 3	1 2 0 1 0 7 1 1	1 10 00 00 91 0	100000004	300000111	1 1 0 2 1 2
21 22 23 24 25 26 27 28 29 30	100000000000000000000000000000000000000	100000000	100000000	0000000000	0-00000000	0100000000	010000000	0 1 0 0 0 0 0 0 1	0100000001	0 0 0 0 0 0 1	00000000	1 0 0 0 0 1 0 0 0 0 3	200003	100000000	100000001	400000001	4000000001	4 0 0 0 0 0 0 0 0 1	300000001	0 0 0 0 0 0 0 1	0000000	100000000	000000000	0000000000	000000000000000000000000000000000000000
31 MEAN	0	0	0	0	0	0	0	1	. 0	0	1	1	3	1	1	1	,	1	1	1	1	1	1	1	0.7

PERCENTAGE OF DATA VALID - 99.1

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. ... INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION . NE	NO 77010 CALLUM SUDBO	URY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAX! MUM	MAXIMUM READING
JAN	31	1.1	4	54
FEB	29	0.4	3	21
MAR	31	0.6	2	26
APR	17	0.5	2	26
MAY	30	0.5	2	16
JUN	29	0.4	3	18
JUL	31	0.4	X	16
AUG	31	0.5	3	21
SEP	30	0.5	2	16
oct	31	0.8	5	36
NOV	30	0.9	6	48
DEC	31	0.7	4	30
YEAR	351	0.6	6	54

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

POLLUTANT -	SULPHUR D	TOXIDE				5.77.73	0.0.		
STATION -	NE NO 770	10 CAL	LUM SUDBURY	Y AIRSHED			*		
MONTH	00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 TO 39	9 40 TO 49	50 SOVER	TOTAL
JAN	691	22	11	0	0	,	. 0	1	726
FEB	677	10	2	0	1		0 0	0	690
MAR	717	15	3	0	0	,	1 0	0	736
APR	419	7	1	4	1	1	1 0	0	430
MAY	682	11	2	1	0	:(	0 0	0	696
JUN	678	11	3	3	0	i	0 0	٥	695
JUL	724	12	0	1	0	(	0 0	0	737
AUG	718	18	3	3	1		0 0	0	743
SEP	702	8	5	1	o	1	ن ن	ن	7.0
ост	717	13	8	3	0		2 0	0	743
NOV	693	14	5	2	3		1 1	0	719
DEC	721	10	3	1	j		1 0	0	737
YEAR	8139	151	46	16	7		7 1	1	8368
FREQUENCY	DISTRIBUT	ION BY PERC	ENTILES		201:00				

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT
OF OATA
VALID
MIN 10 30 FREQUENCY DISTRIBUTION. PERCENT
50 70 90 55 98 99 MAX MEAN

95.3 0 0.0 0.0 0.0 0.0 1.0 2.9 5.9 9.6 54 0.6

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTANT	- s	ULPH	UR DI	OXIDE								UNITS	. 0.	O1 PAF	RTS/MI	LLION	4						
	ST	ATION -	NE	NO	77012		SKEAD	SUDE	URY A	IRSHE	D					MONT	гн - "	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	00001000	0 0 0 0 1 0 0	0 0 0 0 0 0 0 0	00000400	00000400	000000000000000000000000000000000000000	00000000	0000310	00000		0 0 0 1 0 0	0 0 4 1 0 2		0 0 3 3 0 0		0 0 2 5 0	0 0 0 2 4 0 1 -	0002	500	0 0 0 1 5 0 0 -	0 0 1 3 0 0	0 0 0 1 2 0 0 .	0 0 0 1 1 0 0 0 -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2100
10 11 12 13 14 15 16 17 18 19	0 0	0 0 0 0 22 0	0 0 0	0 0 0 28 0	0 0 0 33 0	0 0 0 14 0 0	000000	0 0 0 1 0 0			 0 0 0 4 0		DATA CATA DATA O O O	INVALI INVALI INVALI INVALI 0 0 0 1 0	D -	0 2 0 1 0 0 0	0 1 0 0 0	0 0 0 0 0 0	00000	000000	00000	00000	0 0 0 0 0	00000	0000500
21 22 23 24 25 26 27 28 29 30	0	000000000	000000000	000000-00	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	000000000			000000000	000000000000000000000000000000000000000	0 0 0 0 2 8 0	0	7 0 0 3 0 4 0	900304000	15 7 0 0 0 0 0 0 0 0	24000	29	1 2 0 0 0 0 18 0 0 0	0100007000	020000000	0000005000	0000005000	0 0 0 7 0 0 0
31 MEAN	0	0 1	0	0	o 2	0	0	0	0	0	0	0		2	0	1	2	1	2	1	0	0	0	0	0.8

PERCENTAGE OF DATA VALID - 78.0

PERCENTAGE OF DATA INVALID - 19.9

PERCENTAGE OF DATA UNAVAILABLE - 2.2

<sup>2. ..</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS . O.O. PARTS MILLION

	PUL	LUIAN	- 3	ULPH	טא טוט	ALUE									0										
	STA	TION .	NE	NO	77012	;	SKEAD	SUDBU	JRY A	RSHED						MON	TH - 4	EB	80						
HOUR	1	2	3	4	5	6	7	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100004000	0 0 0 0 0 5 0 0 0	0000014000	00000000000	0000052000	0 0 0 0 0 4 1 0 0 0	0000041000	000000-000	000000000000000000000000000000000000000	000000000	0 0 0 0 0 1 0 0 2	000000000	000000000	010000000	00000000	00000000000	0000000000	00000000000	000000000	00000000	0000000000	000000000	00000000000	0000011006
11 12 13 14 15 16 17 18 19	1 0 2 0 0 8 0 0	0020050030	0 0 3 1 0 4 0 0 3 0	0 0 4 1 0 3 0 0 1 0	004000000	0 0 2 0 0 1 0 1 5 0	000000000000000000000000000000000000000	000150000070	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000	0 0 0 1 0 2 0 0 4 1 2 3	0 13 0 6 0 0 14 0 8	0 0	0 0 0 0 0 3 1	000000000000000000000000000000000000000	0 0 1 0 4 0 0 0 0 0	0010100010	00000	000000000000000000000000000000000000000	0 1 1 0 9 0 0 0 0 0	0010800000	0 6 1 0 7 0 0 0 0 0	0 8 0 0 0 0 0	0 4 0 4 1 0 1 2 2
21 22 23 24 25 26 27 28 29	1 0 1 0 0 0	0 1 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	000-0000	00010000	0 0 0 0 0 0 0 0	00000000	00000000	00000000	000000	000000000	0 0 0 0 0 0	000004000	0 0 0 0 0 0 0	000004000	0 0 0 0 0	0-000000	0 0 0 0 0 0 0	3 0 1 0 0 0	4 0 1 0 0 0 0 0 0	402000000	0000000	301000000	000000000000000000000000000000000000000
MEAN	,	1	1	1	1	1	1	1	1	1	0	1	2	1	3	2	٥	1	1	1	1	1	1	,	0.9

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 1.0 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTANT	- s	ULPH	UR DI	SXIDE								UNIT	- 0	01 PA	RTS/M	ILLIO	N							
	ST	ATION -	NE	NO	77012		SKEAD	SUDBU	RY A	AIRSHE	D					MON	TH - 1	MAR	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	0 1 0 3 0 0 3	0 0 0 5 0 0 1	0 1 0 2 0 0 0	0 1 0 1 0 0 0	0 0 0 1 0 0 2	0 0 1 1 0 0 2	0 0 4 0 2	1 0 3 0	0 2 0 0 0 2 0		0 6 3 0 0 6		DATA	0 0 0 4 12 I NVA I NVA	LID .	0 3 2 0 0 0 0 9	0 0 0 0 0 8	5 1 0 6	001000	0 1 1 0 0 5	0 0 0 8	0 0 3 0 0 1 3	0 0 3 0 0 5	0 0 0 5	0 2 1 1 0 3 3 3	
11 12 13 14 15 16 17 18 19	10 0 0 1 0	11 0 0 0 0	9 0 0 1 0	9 0 0 0 0 0 0 0 8	8 0 0 0 0	8 0 0 0 0	7 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 0 0 0	50000000	0	0000	000000000000000000000000000000000000000	DATA 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0 13	25 0 0 0 0 2 0	11 00000011	20000009	2000005	4 0 0 5 0 0 0 0 0	200500000	3 0 3 0	0 . 0 . 0 . 0 . 14 0	3 0 1 0 1 0 2 3	
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	1002000300	002000300	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	000200010	00000000	000000000		000000000	000000	000-000000	000000000	0000	0	00020010	000000000000000000000000000000000000000	0002001030	0001002020	00110000030	0010002	0010004000	0010004000	000000000000000000000000000000000000000	
31 MEAN	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0 2	0	0	0	0	0	o 2	3 2	1.0	

PERCENTAGE OF DATA VALID - 82.7 PERCENTAGE OF DATA INVALID - 16.3

PERCENTAGE OF DATA UNAVAILABLE - 1.1

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O.O. PARTS, MILLION

					and the same									COLON INC.			and the second									
	STA	TION -	NE	NO	77012		SKEAD	SUDB	JRY A	IRSH	ED					MON	:н •	APR	80							
DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	2.2	23	24 1	KEAN	
1	0	0	0	0	0	0	0	0	0	0		16	18	11	2	8	10	16	2	0	0	1	Y	٥	4	
2	0	0	0	0	0	0	0	0	0	0		0	0	0	0	C	0	٥	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	2	5	5	5	1	1	2	2	2	1	0	0	1	1	1	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1	1	0	0	0	0	0	
9	0 0 0	0	0	0	0	0	0	0	0	0	****	4	1	1	13	4	0	1	0	0	0	0	1	0	1	
10	0	0	0	0	0	0	0	10	0	••••	5	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
11	0	0	0	0	o	0	0	0	0	O	U	0	o	U	U	ŭ		u	0	1	U	ت	ū	٥	5	
12	0	0	1	1	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0			0	٥	0	- 0	0	0	0	0	0	o	0	0	0	0	
15	0	0	0	0	0	0	0	0	0			0	٥	0	0	0	0		0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1 5 1 6 1 7	0	0	1	2	4	4	2	3	4	2	1	2	2	14	7	4	4	1	0	0	0	1	- 1	0	0	
18	0	0	0	0	0	0	0	0	0		0	0	0	0	0	п	0	0	0	0	o	1	1	1	0	
19	1	0	0	1	0	0	0	- 1	1		1	1	0	7	0	12	19	0	2	2	18	6	1	1	3	
20	0	0	0	0	0	0	0	0	0	••••	0	0	0	0	0	0	0	0	0	ō	ō	o	0	0	0	
21 22	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	
23	0	0	0	0	0	2	7	٥	0	0	0	0	9	19	6	6	0	C	0	6	0	0	0	0	2	
24	0	0	0	0	0	0	0	0	0	2	1.1	2	4	10	8	10	7	6	6	6	6	5	5	5	4	
25	3	3	2		0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	
26	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 25 26 27 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000	0	O	0	0	1	1	2	1	1	0	
28	0	0	0	0	0	0	0	0	•	••••	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	0	0	0	0	0	0	0	0	0	••••	0	0	0	0		0	0	0	0	o	ō	0	0	0	0	
30	1	1	1	0	0	0	0	٥	0	••••	••••	0	0	0	0	0	0	0	0	ō	ō	ō	0	0	U	
MEAN	0	0	0	0	0	0	0	0	0	٥	1	1	1	2	1	2	2	1	0	0	,	1	0	0	0.7	

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTANT	- 5	ULPH	UR DIO	XIDE								JNITS	- 0.0	01 PAF	RTS/MI	LLIO	N						
	ST	ATION -	NE	NO	77012	5	KEAD	SUDBL	IRY A	IRSHED	)					MON	гн - м	AY	80						
DAY	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	000000000	0000000000	000000000000000000000000000000000000000	0000000000	0000000000	000000001	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 36 0 0 0 43	1500000	0 2 0 18 1 0 0 0	010000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0	000000000	000000000	100000000	32 0 0 0 0 6 0 0 0 0	0 0 0	2004000006
11 12 13 14 15 16 17 18 19	0 0 0	0 0 0 0 0 0	000000000	00000000	0 0 0 0 0 0 0 0 0 1	000000000	0 200000000	0000000000	10000000000	0 0 0 0 0 0 0 0 5	1200000000	9000000	12 0 0 0 0	0 4 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010006001	0 0 0 0 0 1 1 0 0 1	0 0 0 0 0 13 0 0 0	0000008000	0000000000	0000011200	0000010300	0000000000	0000000000	000001000	10002202
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	000000000	010000000	2200000000	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0 1	620000000000000000000000000000000000000	000000000000000000000000000000000000000	900000007	17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	8 1 2 0 0 0 0 0 0 1	200000000000000000000000000000000000000	10001000026	000000000	00000000-0	000000000	0000000000	000000000	000000000000000000000000000000000000000
31 MEAN	5	0	0	0	5 0	0	8	16 1	11	1	3	0 2	7 · 2	1 2	0	0	0 2	0	0	0	0	0	0	0	3 0.9

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA :NVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C: PARTS, MILLION

	ST	ATION	· NE	NO	77012		SKEAD	SUDB	URY A	IRSHE	)					MON	:н - ,	JUN	50						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	:8	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	000000000	000000000	0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0	00000000000	0000900	0 0 0	0000906000	0 1 0 0 25 0 20 0	0 1 0 0 0 0 0 0 0	0 21 0 0 5 0 1 0 0 0	0 4 0 0 0 1 1 0 0 0	0300101000	0900700000	0500900000	0 5 0 0 1 0 0	0400000-00	0000000000	0000010000	0000000000	0 0 0 1 0 0 1 0 0	0 5 0 5 0 1
11 12 13 14 15 16 17 18 19	0 2	30 1 0 0 0 0 0 0	0 0 4 1 0 0 0 0 0	0 0 7 2 4 0 0 0 0 0	2 2 0 0 0	18 100000	1 35 1 0 0	0 0 0 0 0 0	04100100	0 0	1 39 00 00 14 00 0	1960008000	01720007000	0010003000	0:00000000	0-390005000	0350005000	034000-000	23 6 0 0 0 0 0	5 27 0 0 0 0 0	0 . 1 0 0 0 1 0 0 1	0 3 0 0 1 1 0 0 0	01120012000	0 0 0 0 0 1	90000
21 22 23 24 25 26 27 28 29 30	000000	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 2 0 0	_	0 1 5 0 4 0	18020	0	0 0 14 0 2 0 0 0	0 12 8 0 0 0 0 2	0 3 7 0 10 0 0	0 7 9 0 12 0 0	0 10 1 0 7 0 0 0 0 0	100050000	3 30 7 1 4 0 0	0 30 6 3 9 0 0 0 0	9 0 1 10 0 0 0 0	15 1 6 0 0 0 0 0	1 2 1 1 5 0 0 0 0 0	0 2 2 0 0 0 0 0	0 9 1 0 0 0 0 0 0 0	1 11 0 0 1 0 0 0	0 6 3 0 4 1 0 1 0 1
MEAN	0	1	0	1	0	1	2	1	1	0	3	3	2	2	2	1	3	4	3	2	1	1	1	1	1.6

PERCENTAGE OF DATA VALID - 95.7 PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

POLITANT . SUI DHUD DIOYINE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

		POLLU	TANT	· 5	ULPH	UR DI	OXIDE								UNITS	- 0.	01 PA	RTS, N	ULLLIC	N							
		STATI	ON -	NE	NO	77012		SKEAD	SUDE	BURY A	IRSH	ED					MON	тн -	JUL	80				*			
DAY	ţ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000000000	000000000	0000100000	0000700000	0000500000	1600003	0 0 0 0 0 0 0 0 0 0	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 1 0 0 0 4 0 0	4 0 3 0 0 0 5 0	2 0 3 0 0 0 1 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 1	3006000000	3 0 0 1 8 0 0 1 0 1 0	1 1 0 9 0 0 1 0 2 0	0010001010	0 0 0 1 0 1 0	0 0 0 0 0 0 0 0	000400-000	0 2 2 0 1	
11 12 13 14 15 16 17 18 19	***	0 0		10000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 3	0 0 0 0 1 2	20002	20000	 2 0 0 1		1 C 		0 0 DATA 0 0	1 NVAL	1D - 000 200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7 0	0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0	000004	000000000000000000000000000000000000000	0 0 0 0 0 0 1	000000000000000000000000000000000000000	0 0 1 0 1	
21 22 23 24 25 26 27 28 29 30				0000000000	100000000	0000000000	0000100000	0 0 0 0 0 0 0 0	0000120000	30000	00000	400000000	2000000000	00000000	0000000000	1002200000	000000000	000600-000	0000000000	0000000000	0001002000	0 0 0 0 0 0 0 0	000000000	00000000	000000000	000-00000	
31 MEAN		0 (	) )	0	0	0	0	0	1	0	0	13	1	0	1	0	1	3	3	7 2	19	0	0	0	0	2 0.7	

PERCENTAGE OF DATA VALID - 91.1

PERCENTAGE OF DATA INVALID - 8.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. " · INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - AUG 80 SKEAD SUDBURY AIRSHED STATION - NE NO 77012 24 MEAN 9 10 1.1 HOUR 36 0 2 0 1 0 530-0-0 00000000-0 1 0 0 15 0 4 0 1 6 10 0 1 16 0 0 31 0 0 1 2 3 4 5 6 7 8 9 10 0 26 0 23 1 1 5 00-0000350 12 13 14 15 16 17 18 19 20 0004000-00 0000000-00 0000000-00 0900000-0 -0000000 0 0 0 0 22 3 0 0 0 38 0 0 0 0 0 2 0 0 0 2 4 0 3 0 0 0 1 0 0 0 23 00052-0000 22 23 24 25 26 27 28 29 30 0 12 0 0 25 22 0 0 0 0 00000-0000 00000-0000 0000-0000 0 21 0 0 0 0 2.0 MEAN

PERCENTAGE OF DATA VALID - 99.6

PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	. 5	ULPH	UR DIO	XIDE							į,	NITS	- 0.0	1 PAR	RTS/MI	LLIO	N						
	STA	TION -	NE	NO	77012	:	KEAD	SUDBL	RY A	IRSHE	0					MON	TH - 5	SEP	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 0 0 0 0 0 24 0	0100000000	0100000000	0000000000	0000000000	0000000000	000000000	000000000	000000000		0000000000	0001000000	1100000000	0065000000	14 200000000	14 0 11 7 0 0 5 0 0	10 0 3 1 0 0 0 11 0 0	9020000700	30000600	003000000000000000000000000000000000000	000000000000000000000000000000000000000	00110000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 2 1 0 0 0 4 1 0
11 12 13 14 15 16 17 18 19 20	000000-000	0000000000	0000-00000	000010000	0 0 0 0 2 1 0 0 0 16	000002	0000000001	000000000000000000000000000000000000000	00000031001		0 0 2 0 1 0 3 0 0	0002	000000	0000000000	000000000	000000000000000000000000000000000000000	210000	200000	01:00040000	000000000	0000000000	0 0 0 0 0 0 0 0	0000000	00000000000	0000120002
21 22 23 24 25 26 27 28 29 30	000000000	00000-0000	000000000	00000-000	60000	0000404000	0 0 0 16 0 41	30 0 12 0 0	0 4 0 0 2 2 0 1 0 0	0 1 0 0 1 0	0 39 1 6 0 3 0	0 3 0 1 0 0 0 0	030000000	0 0 0 0 0 0 0 1 1 0	5000010	0 0 0 0 0 0 0 0	0 0 0 11 2 0 0 0 0	14 00 01 20	0200100240	0 2 0 0 0 0 2 1 1 0	0 1 0 0 3 0 0 1 1 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000000000	0202403020
MEAN	1.	٥	0	0	t	2	2	2	1	0	3	1		1		2	1	2	1	1	1	1	v	1	1.0

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE . 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN :N ONE DAY

UNITS . O O1 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - OCT BO SKEAD SUDBURY AIRSHED STATION - NE NO 77012 11 12 1.7 21 22 23 24 MEAN HOUR 0 0 19 3 4 5 6 7 8 9 0 0 0 0 19 1 0 0 0 .0000 0 6 0 1 7 0 0 1 9-0000 0 23 0 0 2 22 0 0 ò 12 13 14 15 16 17 18 19 20 0 11 28 0 0 0 55 0 0 . . . 6 15 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 22 23 24 25 26 27 28 29 30 

DATA INVALID - DATA INVALID - DATA INVALID -

1 1 2 1 3

PERCENTAGE OF DATA VALID - 86.3

MEAN

PERCENTAGE OF DATA INVALID - 13.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

 1.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- " " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES ERANCH

	PO	LLUTA	NT -	SULPH	UR DI	OXIDE								UNITS	- 0.0	01 PA	RTS/MI	LLIO	ч						
	ST	ATION	- NE	NO	77012		SKEAD	SUDB	URY A	IRSHE	D					MON	TH - N	10V	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0		500000	000000000000000000000000000000000000000		0 0 0	5 0 0 0		0 0 2 0 0 0	000000000000000000000000000000000000000	0 0 1 0 0 0			I NVAL 0 0 0 0 0 0 0 0 0		0 0 0 0 36 0 0	29 00	00000900	0 0 0 0 3 0 0	00000000	18 0 0 0 0 0 0 0	0 0 0 0 0	00000000	00000100	0 0 1 0 5 0 0
11 12 13 14 15 16 17 18 19 20	0010001000	0000000000	000000000	000000000000000000000000000000000000000	000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 1 0 0 0 0	0 0 1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 6 0 0 0 5 1 0 0 0	0 3 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0300000000	0 0 0 0 0 0	0 0 0 1 1
21 22 23 24 25 26 27 28 29 30	0062001000	26 00 00 00 0	000000000000000000000000000000000000000	0000000000	0	0 3 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	160000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 17 18 0 0 0 0	85 0 0 0 0 0	1 45 1 0 0 0 0 0	0 0 0 0 0 0 0 1	100000000000000000000000000000000000000	0 4 4 0 0 0 0 0 0 0 1	0 15 2 0 0 0 0 0 0 0	0 61 8 0 4 0 0	28 0 0 0 6 0 0 0 0	0 0 13 0 0 3 0	0 0 1 0 0 0 0	10000000	0000000	0 13 16 0 0 1 0 0 0	0 12 8 0 0
MEAN	0	1	1	0	1	0	1	1	0	1	2	3	2	1	3	Ł	4	4	2	1	1	1	10	.1	٤. ١

PERCENTAGE OF DATA VALID - 91.5

PERCENTAGE OF DATA INVALID - 8.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \* " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT	- 5	ULOH	UR DIO	SOIX							ı	INITS	• n.c	II PAR	RTS/M	LLION	4		*					
	STA	TION -	NE	NO	77012	s	KEAD	SUDBU	RY A	CRSHED	)					MON	H - C	DEC	80			*				
HOUR DAY	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 .	23	24	MEAN	
1 2 3 4 5 6 7 8	00000000	0 0 0 0 0 0 0 0 0 1 1	000000000	00000000	000000000	000000000	000000000	0000000400	0000000000	0000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19	34	800000000	200200000	00000000000	00000000000	0004000000	000300040	0002000040	0 0 0 0 0 7 0	0 0 0 0 0 0 14 0		100000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19 20	0 9 0 0 3 0 2 2 0 0	0 4 0 0 3 0 1 0 0 0	030030000	0400001000	0 3 0 0 0 1	030000-000	0400001000	0 3 0 0 1 0 0 0 0	0300100000	020000000	0100005000	0100000000	0100000000	010000100	0 1 0 0 0 0 0 2 0 0	0 1 0 0 0 0 1 0 4	1 1 0 0 0 0 0 1 0 3	1 1 0 2 0 2 0 2	1 7 5 0 1 0 1	1 0 0 0 0 0 3	2400000000	240:00000	5102020000	8 1 0 5 0 1 1 0 0		12000000
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0	0 0 0 0 0 0 1 0	000000000000000000000000000000000000000	003000300	0 5 0 0 0 49	0 0 0 0 0 0 0 0 0	6800	0 2 4 0 0 0 0 5 8 0 0	0 0 11 0 0 0 0 37	0 0 8 0 0 0 0 2 0 2	00500000	002000000	000000000000000000000000000000000000000	0010000300	. 0 0 0 0 4 0 0	0 0 0 0 0 0 0 0 0	200000000	2000000000	0 0 0 0 0 0	040000000	200000000	040000000	0000000000	000000000	1	0120000100
31	1	2	4	2	1	0	٥	٥	o	0	0	0	0	0	0	0	0	0	0	Q	0	0	0	0		0
MEAN	1	1	1		2	1	2	2	2	0	0	0	1	1	1	1	0	0	1	٥	1	1	1	1	1.	0

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION - NE	NO 77012 SKEAD SUBBURY	AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	24	0.8	7	33
FEB	29	0.9	6	55
RAM	26	1.0	3	31
APR	30	0.7	4	19
MAY	31	0.9	6	43
JUN	30	1.6	9	45
JUL	28	0.7	5	25
AUG	31	2.0	11	53
SEP	30	1.0	4	41
ост	27	1.6	8	55
VCM	27	1,3	12	85
DEC	31	1.0	11	68
YEAR	344	1,1	12	85

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

S	TATION - NE	NO 7	7012		SKE	AD	SUDE	BURY	AI	RSHE	ED														
	MONTH OO	то о	5 06	TO	10	11	10	15	16	TO	20	21	10	25	26	10	39	4C	10	43	50	SOVER	C.	TOTAL	
	MAL	56	it		9			2			1			3			4			0			).	580	
	FEB	66	3		15			6			1			2			٥			1		,		689	
	MAR	58	16		17			7			2			1			2			0				615	
	APR	67	2		18			5			6			C			0			0		c	)	701	
	MAY	69	90		23			12			4			2			2			1		0	1	734	
	JUN	62	18		33			12			6			3			6			1		C	)	689	
	JUL	65	55		11			4			7			1			0			0			)	678	
	AUG	67	75		18			16			11			9			8			3		1		741	
	SEP	67	14		10			15			5			3			3			1			1	7:1	
	oct	58	19		17			12			8			7			6			2		1		642	
	NOV	61	9		14			8			8			1			6			1			2	659	
	DEC	72	21		9			4			2			1			3			1			1	743	
	YEAR	773	33		194			103			61			33			40			1.1		7		8182	

#### FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF CATA VALID MIN 10 CONCENTRATIONS FREQUENCY DISTRIBUTION. PERCENT 50 70 90 95 ARITH MEAN 99 28 30 14.2 21.3 1.1 5.7 93.1 0 0.0 0.0 0.0 0.0 1.9

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- 50	ULPH	UR DIO	KIDE							NITS	- 0.0	I PAR	115/MI	LLION	1						
	STAT	ION -	NE	NO 1	77013	H	ANMER	SUDBURY	AIRS	CBH					MONT	H - J	AN	60						
HOUR	1	2	3	4	5	6	7	8 9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	000000000	0 0 0 0 0 1 0 0 0 0	0 0 0 0 1 0 0 0 0	0 0 0 0 1 13 0 1 0	0 0 0 0 1 7 0 1 0	0 0 0 0 1 6 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000	0 2 0	0 0 0 0 7 0 0 1	0 0 0 0 0 0 0	0000040000	0000040003	0 0 0 1 1 0 1 1 6 0 5	000000000000000000000000000000000000000	0 0 0 0 0 0 14 0 1	0002000800	000-000600	0 0 0 1 1 0 0 5 0 1	0 0 0 1 1 0 0 1 0 1	00000000	0 0 0 1 3 0 0 0 0 0	0 0 0 0 2 1 4 0 1
11 12 13 14 15 16 17 18 19 20	000100000	0000000000	0 0 0 0 0 6 1 0 0	1 0 0 0 0 0 10 2 0 0	2000008200	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	24 000	0000	000004	0000134000	0000123000	60000	000000	00-0008000	000000000	000000000	00-0000000	00-00-0000	00-0031000	000000000000000000000000000000000000000	00000
21 22 23 24 25 26 27 28 29	0000100400	000010000	0000100000	0000100000	0 0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			000000000	000000000	0000000000	0000000000	0 0 0 0 0 0 0 0	1100005000	1,00006000	200005000	2100007000	10000011000	000000000	0001009000	000100000	000000000000000000000000000000000000000
31	0	0	0	0	0	0	0	0 (		0	٥	0	0	o	0	c	0	٥	٥	0	0	0	0	0.7
MEAN	0	0	0	0	1	1	0	0 (	) 0	1	1	1	1	1	1	2	1	1	1	1	1	3		0.7

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID . 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. &</sup>quot;-" INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION

	STAT	TION .	NE	NO	77013		HANMER	SUDBUR	Y AIF	RSHE	D					110141	H - F	EB	80						
HOUR	1	2	3	4	5	6	7		9 1	10	11	12	13	14	15	18	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	00000000	0 0 0 0 0 4 0	00000000	00000040	0 0 0 2 3 0	0 0 0 0 3 1 0	0 0 0 0 0 3 1 0	0 0 0 2 1	000000000000000000000000000000000000000	00000130	0000000	0000000	0000000	00000000	0000000	0000000	00000000	00000000	00000000	00000000	0000000	000003000	00000000	0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0
10	0	0	0	0	0	0	0	1	1	1 .		7	8	18	9	6	12	7	5	5	4	3	3	2	4
11 12 13 14 15 16 17 18 19	9100000001	5 0000000000000000000000000000000000000	13	13 1 0 0 2 0 0 0 0 0	1 0 0 3 0 0 0 0 0	000000000	10 0 1 0 3 0 0 0 0 0	1 0 3 0 0 2	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000100	0 0 0	3 0 0	000000000000000000000000000000000000000	0 0 1 2 0 0 0 0	000000000000000000000000000000000000000	000000	. 00-0-0000	0001010000	0 0 1 0 0 0 0 0	1000010000	0010010000	0 1 0 0 0 0 0	000010000		000000000000000000000000000000000000000
21 22 23 24 25 26 27 28	000000000	00000-000	000001000	000000000	0 0 0 0 0 0 0	000000000	00500000	0 0 1 0 0 0 0	10100000	2 0 1 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	2 0 1 0 0 16 0	0 0 0 16 0 0	0 0 0 17 0 0 0	101004000	101000000	00100000	00100000	00100000	0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	00000000	1 0 0 0 0 0 0 0
MEAN	0	0	1	1	0	1	1	1	1	1	1	1	í	1	1	1	3.	0	0	0	0	٥	0	0	0.6

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. --- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- 51	JLPHU	R DIO	XIDE							t	INITS	- 0.0	O1 PAR	RTS/MI	LLICH	r						
	STAT	ION .	NE	NO 7	7013		ANMER	SUD	BURY	AIRSHE	D					MON	гн - м	AR	во						
HOUR	Ī	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	000000	0000000	000000	0 0 0 0 5	0 0 0 0 0 0 19 •	00000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000.	000000	0	00000	- CA	A UN	O O O O O O AVAILA	BLE		000000.	000000.	0 0 0 0 0	000000	000000	00000.	0 0 0 0 0 0	0 0 0	0000
11 12 13 14 15 16 17 16	0 2 1 0 0 1	. 0 1 1 0 0 2	. 0 0 1 0 0 3	0 0 1 0	. 0 0 0 0 0 2	000001	000000000000000000000000000000000000000	0	0		00000	- DA	0 32 0	0 0 18 0	BLE		0 0 0 0 0 0	000002	0 0 0 0 0 1 1 1 1	0 2 1 0 0	0 2 0 0 0	0 2 1 0 0 1 7	0 3 1 0 0 1 2	0 ***	0 0 0 0 0 3
21 22 23 24 25 26 27 28 29	3 0 0 1 0 0 0 1 0 0	3 0 0 1 0 0 0 1 0 0 0	2001000100	2001000100	000000000000000000000000000000000000000	1 0 0 0 1 1 0	100010001120	1002001110	100220011	2	0002000120	0000	0 0 1 0 1 0	0002001010	00030015	0003005320	00020	0 0 0 0 1 0 2 0	0 0 0 1 0 2 0	000000000000000000000000000000000000000	0000000000	0 0 1 0 0 0 0	0010001000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	1	1	0	0	0.6

PERCENTAGE OF DATA VALID - 74.5 PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 23.4

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### UNITS - 0.01 FARTS MILLION

	135700					2.5																			
	STA	TION -	NE	NO	77013	,	HANMER	SUDB	URY	AIRSH	ED					CONT	Гн	468	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
į	0	0	0	0	0	0	0	0	0	0	3	8	8	2	6	12	4	1 3	2	0	0	0	0	0	0
3		0	00	0	0	0	0	0 0	0	0	0	3	0	0	3	0	1	1	0	0	0	0	0	0	0
6	0000	0	000	0	0	0	0	0	0	000	000	o 5	11	4	0	7	12	7	4	0	2	0	0	0	2
9	0	0	0	0	0	0	0	0	0	3	0		0	0	0	0	0 2	2	0	0	0	0 1	0	0	0
10 11	0	0	0	0	0	0	0	3	2	0	6	0	0	0	٥	0	٥	0	0	0	0		150	0	0
12 13 14	0	0	0	000	0	0 0	000	0	0 0	0	000	000	0	000	200	000	00	000	000	000	0	0000	0 0	300	0
15	0	0	0	0	0	0	0	0	0	0	0		0	0	000	0	0	0	0	0	0	0	0	0	0
17 18 19	0	0	0	0	0	0	0 0 0	0	000	0	0	0	0	5 0 3	4 0 4	0	C	0	000	8	11	6	2	0	1
20 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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22 23 24 25 26 27 28	0	0	0	000	0	000	0	0	000	0	0	0	0	0	000	0	0	000	0	0	0	0	0 0 1	0	0
28 29 30	000	0	0	0	0	000	0	0 0 0	000	0	0 0 0	0	000	0	0	0	0	000	8	0 11 0	0	0	0	0 1 0	. 0
MEAN	0	٥	0	0	٥	0	o	ï	0	٥	1	1	2	1	1	1	1	0	1	1	1	1	0	0	0.6

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	OLLUTANT	- 5	ULPH	UR DIOX	IDE							UNITS	. 0.0	IL PAI	ATS, MI	LLION	N						
	s	TATION -	NE	NO	77013	HANME	9 SUDB	URY	AIRSHE	D					MON	TH - 5	AY	80						
HOU	1	2	3	4	5	6 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	EAN
1 2 3 4 5 6 7 8 9	010000000000000000000000000000000000000	0 0 7 0 0	0 1 0 0 0 7 0 0 0	0-0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0 0 0 0 3 2 0 0 0 0	0100300000	020020000	0 1 0 0 0 0 0	0 1 0 0 0 0 0 0 2	0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 7	0003000005	000000000000000000000000000000000000000	000000000	0000000000	000000001	000000001	000000000-	0000010001	1000010001	100000000	200000000	0 0 0 0 0 1 0 0 2
11 12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	0 0 0	000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	200000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000005005	0040000006	0020000004	00005	0 0 0 0 0 0 0	000000000	0000000004	0000000000	0000000000	000000000	000000000	00.00000000	000000000	000000000	00000000
21 22 23 24 25 26 27 28 29	000000000000000000000000000000000000000	0 0 0 0	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	0000000000	000000000	00010000014	000000001	000000001	0000000000	0 0 0 0 0 0 0 1	0000000004	000000005
31 MEAN	2		0	7	2	1 5	6	7	••••	6	1	0	0	0	0	0	0	0	0	0	0	0	0	2 0.5

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION

	POL	LUTANI	- 1	ULPF	ION DIO	AIUE							7.												
	STA	TION -	NE	NO	77013		HANMER	SUDE	URY	AIRSHE	0					NON	tH ⊕ v	UN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	
1	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	C	0	7	0	0	0	0	0	0	0	9
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15		0	o	0	1	1	0	0	0	0	0	٥	0	0	0	0	Ü					ő	ŏ	0	ŏ
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő	ŏ	ŏ	ŏ
17	0	0	ō	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	ő	Ö	ŏ	ŏ
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21	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	18	21	0	0	0	0	0	3
22	0	0	0	0	0	0	0	0	- 1	0	0	3	1	0	2	6	2	٥	-0	ō	ŏ	ŏ	ŏ	ŏ	o
23	0	0	0	0	0	0		••••	0		0	~		0	0	0	6 0 0	č	č	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
24	0	0	0	0	0	0			0	0	0	0	0	0	0	ŏ	ŏ	0	0	ŏ	ŏ	ŏ	o	ŏ	0
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27	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0	0	٥	Ÿ	ĭ	10	3	ŏ	0	0	ŏ	1
28	0	0	0	0		1	2	3	- 1	0	0	1	٥	2	·	ŏ	^	o	0	3	ŏ	ŏ	ō	ō	2
29	0	0	2	2	3	4	10	7	- 1		4	1	- 2	2	- !		č	ŏ	õ	ŏ	ŏ	ŏ	ŏ	ō	1
30	0	0	0	0	0	0	0	3	7				1	2	- 1	1		-	-			-	25-5		
MEAN	0	0	0	0	0	0	0	1		0	1	3	2	1	2	2	1	2	2	1	0	0	0	0	0.9

PERCENTAGE OF DATA VALID - 97.9

PERCENTAGE OF DATA INVALID - 2.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION																								
	ST	ATION	- NE	NO	77013		HANMER	SUDE	URY	AIRSHE	D					MONT	н - Л	UL	80						
HOUR	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		EAN
1 2 3 4 5	0 0 0	0000	00000	0 0 0	0	0 0 0 0	0 0 0 0	000000	0 0 0 0	100010	0000	0 0 0 0	0 0 0 0	100000	000000	2000000	0000005	0000004	000000	0 0 0 0 0 0 0 0 0	000000	0000005	0 0 0 0 0 4	0000006	0 0 0
7 8 9 10	0	0	0000	000	0	0	0000	0000	000	0	5000	1000	3	0 18 0	B 0	0 8 0	0 7 0	0	000	010	0 1 0	0 1 0	0 1 0	0	0 2 0
11 12 13 14 15 16 17 18	00000	000040000	000040000	0 0 0 0 0 0 0	0 0 1 0 0 1	000011001	0 1 1 0 0 2	0000120010	000011002	0	00000000	00000-000-	00000-000	000000-000	0001000001	0 0 0 0 0 0 0 0	0000000000	000000000	90009	000500	0007000101	00000000	000500	0006000-00	1 1 0 0 1 0 1
20 21 22 23 24 25 26 27 28 29 30	0 0 0 0 0 1 0 0 0	0 0000001000	0 0000000000	00000	0 0 0 0 0 0	0 0000000000	00000000	0000000100	30000020200	0000	500000000000000000000000000000000000000	~000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000010.00	10000	0000004000	1000006000	000000000000000000000000000000000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	1 0 0 0 0
31 MEAN	0	0	0			0		0	0		12	8	5	7	20	12	24	3 0	1	12	2 1	0	0	0	0.5

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID . 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS . O.O. PARTS/MILLIGN

	STA	TION	· NE	NO	77013	H	ANMER	SUDB	URY	AIRSH	ED					::ON	TH -	465	80						
HOUR	1	2	3	4	5	6	7	. 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0000000000	0000000000	00000000	000000000	000000000	0 0 0 0 0 0 0 0	0000000000	0000000000	000000000	000000000	0000000000	0000004000	000000000000000000000000000000000000000	0 0 0 3 11 0 8 0 0	0 0 21 12 0 0 0	29700005	000000005	0000000000	00000000	0000000000	0000100000	0000000000	000000000	0000000000	0 0 0 4 1 0 0 1 0 0 2
11 12 13 14 15 16 17 18 19	000100000	0000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000000	000000000	0000014	18 0	0 0 0 0 0 0 0 5	0 0 0 0 0 0 0 7	00000000	0000000000	000000000	.000000000	0000000000	6000000000	5000000000	.030000000	1010000000	000000000	00000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	10000	0000010042	0000000	0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000011	4 0 0 0 0 0 0 1 4	2 0 0 0 0 0 0 0 0 0 1 1 0 0	0 0 0 0 0 0 0 6	100004	000000000000000000000000000000000000000	4 0 0 0 0 0 0 0 0 2 0	000000097	000000000000000000000000000000000000000	0000002	000000009	000000000	000000000	0000000000	0000100010	0000100000	000000000	0000000011	000000000	000000000000000000000000000000000000000
31	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	2	3	2	1	1	2	2	1	1	i	1	0	0	0	٥	0.8

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS											JNITS	TS - 0.01 PARTS/MILLION												
	STA	TION -	NE	NO	77013	н	ANMER	SUDBU	RY	AIRSE	1ED					MON	гн - 5	EP	80						
HOUR	1	2	3	4	5	6	7	В	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	TEAN
1 2 3 4 5 6 7 8 9	00000000	00000000	000000000	000000000	000000000	000000000	000000000	000000000000000000000000000000000000000	000000000	5 0 5 0 0 0 0 0 0	13 0 1 0 0 0 0 36 0	12001	1 1 6 0 0 5 0	7 0 1 12 0 0 0 8 0	4 0 3 2 0 0 0 0 0 0	0030000100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	0 0 1 2 0 0 0 0 0 0 0	1 0 1 5 0 0 0 0 0 0	0014000100	0000000000	0000000000	00000000000	2 0 0 0 3 0 0
11 12 13 14 15 16 17 18 19	000000000	000000000	0000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 1 1 0 0 6	0000010006	000000000000000000000000000000000000000	0001020000	0 0 0 0 0 0 0 0 0	000200000000000000000000000000000000000	0 0 0 1 0 6 0 2 0 0	0 0 0 3 0 2 0 0	000000000	000000000	0 1 0 0 6 0 0 0 1 0	0 2 0 0 6 3 0 0 0 0	0 7 0 0 1 4 1 1 0 0	0 0 0 0 1 1 1 3 0 0	00000-000	000000000	000000000000000000000000000000000000000	000001000	0000000000	0 0 0 1 1 0 0 0 1
21 22 23 24 25 26 27 28 29	000000000	000000000	000000000	0000000000	0 0 0 0 0 0 0 0 0	000000000	000000000	000000000	0-0000000	0 3 0 3 0 0	0 3 0 0 5 0 0 0 0	0 0 0 0 0 0 5 0	000000000000000000000000000000000000000	0000000040	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	0000100090	000000000000000000000000000000000000000	000000110	0 0 0 0 0 1 3 0	000000-00	0000000000	0000000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN	0	0	0	0	٥	0	0	0	0	1	2	1	1	1	0	1	1	1	٥	0	0	0	0	0	0.5

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0 01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE HANMER SUDBURY AIRSHED MONTH - OCT 80 STATION - NE NO 77013 24 MEAN HOUR 00000-000 00000 · 000 1 2 3 4 5 6 7 8 9 10 00000-0000 0000-000-000-000-000 12 13 14 15 16 17 18 19 20 500003-000 0000-3-000 0000-20000 0000-00000 -000000000 000004-000 22 5 0 0 0 0 0 3 22 23 24 25 26 27 28 29 30 0 1 25 0 0 25 14 00 1 00 0.8 MEAN

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION																								
	STA	TION -	NE	NO '	77013		ANMER	SUDB	URY	AIRSHE	D					NON!	H - N	VOI	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 MI	AN
1 2 3 4 5 6 7 8	00230000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00010000	0 0 0 1 0 0 16	0 0 0 0 1 0 0 15	00000000	00000004	000000000	000000000	00000000	000000000		0010000000	001000000	00-00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00100001400	0020000600	00-0000000	0010000100	0110000100	310000100	0060000400	0 1 4 0 0 0 0 10 0 0	0 0 0 0 3 5 0
10 11 12 13 14 15 16 17 18 19	0 0030010000	0 0 1 0 0 0	0 0 1 0 0 1 0 0 6 0	0 00 1 00 1 00 3 0	0 0000010000	0 000000000	0 0000000000	0 0000000040	0 0000000000	0 000000000	0010000000	00-000000	0000040000	0000020005	0000040008	000000000	0000010001	0201020001	01010001	0 1 0 1 1 0 0 0	0:01100	0 1 0 0 1 0 1	0 0 1 1 0 0 0 1	0 0 0 1 1 1 0 0 0 1	0 0 0 0 1 0 0 1 1
21 22 23 24 25 26 27 28 29	1001001000	1 0 4 0 0 1 0 1 1	1020001010	500000000000000000000000000000000000000	103000000000000000000000000000000000000	1 1 2 0 0 0 0 0 0	1 0 2 0 0 0 0 0 0 0	-0-0000000	3001000	0	10 0 6 0 0 0 0 0 0 0 0	8 1 3 0 0 0 0	60	0 5 3 0 0 0 1 0 0 0	0520001000	0 16 1 0 0 0 1	0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001001000	0 7 1 0 1 2 0 0 1 0	0 24 1 0 1 2 0 0	0020110012	0 0 3 0 1 1 0 0 1 1	0 0 2 0 1 1 0 0 0 2	00201100003	52000000
		-					0	•		0	1	0	2	1	1	2	1	1	1	-1	1	1	1	1	0.8

PERCENTAGE OF DATA VALID - 99.4

PERCENTAGE OF DATA INVALID - 0.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. " -- -- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

POLLUTANT - SULPHUR DIOXIDE UNITS . O C1 PARTS, MILLION STATION - NE NO 77013 HANMER SUDBURY AIRSHED MONTH - DEC 80 17 18 24 MEAN 9 10 1 2 3 4 5 6 7 8 9 10 20.00 0 0 4 0 8 1 1 0 0 38 0 21 20439-12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 0 1 0 1 1 1 1 1 0 0 1 1 1 0 0 ...0 o 0 2 0 2 0 o ò ò 1.3

PERCENTAGE OF DATA VALID - 98.8

PERCENTAGE OF DATA INVALID . 1.2

PERCENTAGE OF DATA UNAVAILABLE . O.O.

NOTES 1. ----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

ATION - NE	NO 77013 HANMER SUI	DBURY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.7	á.	36
FEB	29	0.6	(4)	18
MAR	23	0.6	4	32
APR	30	0.6	84.	22
MAY	31	0.5	5	27
JUN	30	0.9	7	53
JUL	31	0.5	4	24
AUG	31	0.B	5	53
SEP	30	0.5	3	36
OCT	31	0.8	6	25
NOV	30	0.8	5	60
DEC	31	1.3	9	64
YEAR	358	0.7	9	64

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0:01 PARTS/MILLION

STATION -	NE N	77	013		HAN	MER	SUD	BUR	YA	I R SI	HED													
MONTH	00 T	0 05	06	TO	10	11	TO	15	16	TO	20	21	TO	25	26	TO	39	40	TO	49	50	SOV	ER	TOTAL
JAN		708			18			8			3			٥			1			0			0	738
FEB		670			13			6			4			٥			0			C			0	693
MAR		544			2			4			3			0			3			0			٥	554
APR		695			15			7			o			1			0			0			0	718
MAY		716			9			4			2			2			1			٥			0	734
JUN		677			14			1			4			1			7			c			1	705
JUL		714			11			4			3			1			0			0			0	733
AUG		711			16			9			2			3			2			0			t	744
								4			0			٥			1			0			0	714
SEP		693	i		16			4			U			٠										
OCT		713			16			10			0			4			0			0		(9)	0	743
NOV		696			10			3			2			2			2			٥			1	716
DEC		701			16			10			2			1			3			1			1	735
YEAR		8238		1	56			70			25			15			18			1			4	8527

FREQUENCY DISTRIBUTION BY PERCENTILES

PERCENT
OF DATA
VALID
MIN 10 30 50 70 90 95 98 99 MAX MEAN

97.1 0 0.0 0.0 0.0 0.0 0.0 0.9 3.1 7.9 12.7 64 0.7

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCUPCES BRANCH

	PO	LLUTA	NT - 5	SULPH	IUR DIO	XIDE							u	NITS	- 0.0	1 PAR	TS/MI	LLION	i							
	ST	ATION	- NE	NO	77014	R	AYSIDE	SUDBL	JRY	AIRSH	ED					TACN	н - ј	AN	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0	00000000	0000001000	00000-000	0000000000	1000012000	1 0 0 0 0 1 1 0 0 0	0000110120	0 0 0 0 1 0 0 1 0	000000000000000000000000000000000000000	000000000	1 0 0 1 0 0 0 0	00000	00001090000	0 0 1 0 4B 0 0	000102000	0001010300	0001000300	000-0-0200	1 0 0 1 0 1 0 0	1 0 0 1 0 0 0	0 0 0 1 0 0 0 0	0001000000	000000000000000000000000000000000000000	
11 12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	00000	1 0 0 0 20 0	300002000	601000000	4 0 1 0 0 0 1 0 0 0	201000000000000000000000000000000000000	4 0 0 0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0	000000000	0000000	000000000	000000000	0 0 0 0 0 0 0 0	001010000	0.000000	0 0 3 0 1 1 0 0 0 0	001000000	0010000000	004000000	002010000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14000	10120000	* 39
21 22 23 24 25 26 27 28 29	1 0 0 1 0 5 0 0 0	1100004000	0 0 0 0 0 0 0	0000000001	0000000000	000000001	0000000000	0100000001	0000000000	0 0 0 0 0 0 0 0 0	010000000	0 2 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000	0000000000	0 0 0 0 1 0 0 0	0000004000	0 0 0 0 0 0	00000-000	200100000	1000	100100000	000000000000000000000000000000000000000	`
31 Mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	′ u	

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. &</sup>quot;-" INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . D. OF FARTS, MILLION

			- 12													,								
	ST	ATION	. NE	NO	77014	RA	YSIDE	SUDBUR	Y AIRS	HED					NON	TH - 1	C B	60						
HOUR DAY	1	2	3	4	5	6	7	8 9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7	0 0 0 0 0 3	00000	0 0 0 0 0 4	0 0 0 0 0 3	0 0 0 1 2	0 0 0 0 1	0 0 1 0 3 1	0 0 0 0 0 0 1 0 0 0 2 2	0 0 0 0 1	0000000	010000	0000000	0 0 0 0	00000	0 0 0 0 0 0	2000000	0 0 0 0 0	000000	000000	0000000	00000	0 0 0 0 3 0	0 0 0 0	0 0 0 0 1 1
8 9 10	0	0	0	0	0	0	0	0 0	0	0	0	0 4	0	0 0 26	0 0 25	0 3 3	0 0 24	0	1 7	0 0 4	0	1	0	0
11 12 13 14 15 16 17 18 19	1 1 0 0 0 1	1 0 0 0 1 1 0 0 0 9	1 0 0 1 0 0 0 7	1 1 0 0 1 0 0 0 0 7	0 1 0 0 0 0 6	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 5	0 0 1 0 0 0 0 0 0 0 0 0 0 0 3 3	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-00000000	0000000001	00000000	000001	1 00 00 00 00 00 1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 500090000-	1000600001	000000000000000000000000000000000000000	000300011	1 000200051	1000200011	0 0 0 1	1000200003
23 24 25 26 27 28 29	0 0 0 0 0 0 0	000000000000000000000000000000000000000	1 0 1 0 0 0 0 0	0 1 0 0 0 0 0	0 1 0 0 5 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000		0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	000000000	00000000	000000000	0 0 4 0 0 0 0 0 0	7000000	010000000	0000000	10000000	2000000000	200000000	200000000	000000000000000000000000000000000000000	
MEAN	0	1	1	1	1	0	0	0 0	0	0	0	0	0	1	1	1	1	Ĭ	0	0	1	0	٥	0.5

PERCENTAGE OF DATA VALID - 98.4 PERCENTAGE OF DATA INVALID - 1.6

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	DLLUTA	NT -	SULP	HUR D	OXID	E							UNITS	- 0	01 PA	RTS/N	ILLIC	N						
	5	TATION	· N	E NO	7701	•	RAYSI	DE SI	UDBURY	AIRS	HED					A:ON	TH -	MAR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2	0	0	0		٥	0	0	٥	0	0	0	0		INVAL		••••	• • • •	• • • •	••••	••••	••••	••••	••••	• • • •	*****
3	••••	••••			••••					••••	0	0	0	0	0	0	0	0	0	0	0	0	0	0	• • • • • •
-	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0
6	ŏ	ŏ	ő			ő	ő	ŏ	ő		ŏ	ŏ	ŏ	ö	ő	ö	0	0	ő	0	Ö	ŏ	ŏ	0	Ö
7	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	٥	0	0	ő	00	0	0	ŏ
8	0	0	0			0	٥	0	0	0	0	0	1	1	0	0	0	٥	0	0	0	0	0	0	0
10	0	ŏ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	o o
						·		•	U	·	٠		•	U	U		•	0		U	0	U	0	٠	U
11	0	0	0			0	0	0	0	0	О	٥	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	C	0			0	9	0	0	0	c	0	0	9	0		5	1	1	1	1	•	•	7	1
14	0	-	3			0	0	ô	0	0	0	3	2	ò	7	8	5	0	0	0	0	5	0	ď	3
15	ŏ	0	ő		ŏ	o	ŏ	ŏ	ŏ	ő	ő	ŏ	ŏ	ŏ	o	o	č	ő	o	0	0	1	ĭ	1	ă
16	2	2	2		0	0	0	0	0	0	0	0	0	ō	0	0	cco	0	0	0	ŏ	o	0	0	ō
17	4	7	5	5	4	2	6	1	0	0	••••	0	0	1	4	2		c	0	٥	0	0	0	0	2
19	ŏ	ŏ	0	0	0	0	0	ő	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
20	ŏ	ī	1	1	ĭ	4	3	2	ĭ	š	4	2	5	2	2	ŏ	ŏ	ŏ	ŏ	2	ò	ö	ĭ	2	ĭ
21	1	1		0	0	٥	0	٥	0	0	0	0	0	0	0	0	0	0	0	٥	0	1	1	0	
22	0	0	o		ō	ō	ō	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	0	ŏ	ŏ	ő	ŏ	ő	ŏ	ò	ò	ŏ	ŏ
23	0	0	0	٥	0	0	0	0	0	. 0	0	0	0	0	0	0	0	3	5	2	1	1	1	2	1
24 25	0	0	Ö		0	0	0	0	2	- 1	1	1	٥	2	2	3	2	1	0	0	0	0	0	0	1
26	ŏ	ŏ	Ö		o	0	0	0	0	0	0	00	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	ŏ		0	ŏ	ŏ	ŏ	ŏ	ő	2	3	7	2	0	ŏ	ő	0	ő	Ö	ö	ö	ő	ŏ	ĭ
28	0	0	0		0	٥	0	0	0	0	0	0	0	0	o	0	4	7	1	ō	ō	ō	0	0	1
29 30	0	0	0		0	2	2	1	1	1	2	1	0	0		1	2	2	2	1	0	0	0	0	1
30	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	٥	0	0	0	0	• • • •	٥	0	0	٥	0	٥	0	0	0	0	0	0	o
MEAN	0	1	0	0	0	0	1	0	0	0	0	0	1	0		1	1	1	0	0	0	0	0	1	0.4

PERCENTAGE OF DATA VALID - 93.4 PERCENTAGE OF DATA INVALID - 6.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*.\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS, MILLICH POLLUTANT - SULPHUR DIOXIDE TONTH - APR STATION - NE NO 77014 RAYSIDE SUDBURY ALRSHED 24 MEAN : 8 1.5 q 1.1 HOUR 000000-000 MO-0000000 00-000-000-0 1 1 00000000-0 12 13 14 15 16 17 18 19 20 0000:0000 00-0000000 000000-000 22 23 24 25 26 27 28 29 30 0000-00000 -0400000 n a 0.3 o ^ n 

PERCENTAGE OF DATA VALID - 98.9

MEAN

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE -

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGXIDE RAYSIDE SUBBURY AIRSHED MONTH - MAY STATION - NE NO 77014 24 MEAN HOUR 0 2 0 0 . 0000060000-0-0000-000 0000-200 0 0 1 000-00-000 11 12 13 14 15 16 17 18 19 20 0000000-00 -000000000 0 0 1 00000000-3 00000000-0 22 23 24 25 26 27 28 29 30 o 0.4 MEAN

PERCENTAGE OF DATA VALID - 99.1

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

"-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	. NE	NO	77014		RAYSIDE	SU	DBURY	AIRSH	ED					CONT	н .	UN	80						
HOUR	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
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MEAN	0	0	0	0	0	0	0	1	1	1	3	2	1	1	1	1	٥	С	0	0	0	0	0	٥	0.5

PERCENTAGE OF DATA VALID - 96.9 PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. .... INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	PO	LLUTANT	- :	SULPI	HUR D	OXID	E							UNITS	- 0.	DI PAI	RTS/MI	LLIO	N						
	ST	ATION -	NE	NO	77014	4	RAYSID	E SL	DBURY	AIRS	HED					MON	TH	JUL	80						
HOUR DAY	*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
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31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1

PERCENTAGE OF DATA VALID - 96.6

PERCENTAGE OF DATA INVALID . 3.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- " INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POL	LUTANT		ULPH	UR DI	OXIDE							,	UNITS	٠ ٥.	14 10	RTS/M	ILLIO	N						
	STA	TION -	NE	NO	77014		RAYSI	DE SU	DBURY	AIRS	HED					MON	н	ALG	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	O O
1 2 3 4 5 6 7 8	0000000000	0000100000	0000000000	0000-00000	000000000				00000000			0	000001000	0000000000		0 0 0 0 0 0 0	00000000000	00000000000					00000000000	0000000000	0000000000
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20 21 22 23 24 25 26 27 28 29 30	0 030000000	0 0 0 0 0 0 0 0 0 0 0	0000000000	0000000000	0000000	000000000	00000000	00000000	000000000000000000000000000000000000000	0 0 0 0 0 0	000000000000000000000000000000000000000	000000	2	000000000000000000000000000000000000000	0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	00000100	000000000000000000000000000000000000000	00000	00000	1000000000	100000000	0000000000
31 MEAN	0	0	0	0									0	0	-	0	1	0					0	0	0.2

PERCENTAGE OF DATA VALID - 95.3

PERCENTAGE OF DATA INVALID - 4.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	. 5	ULPH	UR D10	KIDE							Į,	UNITS	- 0.0	1 PAR	RTS/MI	LLION	ł:						
	STAT	ION -	NE	NO	77014	R	AYSIDE	SUD	BURY	AIRS	HED					MONT	TH - S	EP	80						
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PERCENTAGE OF DATA VALID - 95.4 PERCENTAGE OF DATA INVALID - 4.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
  - 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

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		ION -					AYSICE	SUD	BURY AL	RSHE	D					MONT	н - о	CT	80 .						
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PERCENTAGE OF DATA VALID - 96.1 PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE 0.0

- NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - -- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POLI	UTANT	٠ \$	ULPH	UR DI	OXIDE							3	UNITS	- 0.0	1 PAF	RTS/MI	LL10							
	STAT	ION -	NE	NO	77014		RAYSI	DE SU	OBURY	AIRS	HED					MON	TH - N	OA	80						
HOUR	1	2	3	4	5	6	7	8	9	10	13	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN O
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PERCENTAGE OF DATA VALID - 95.1 PERCENTAGE OF DATA INVALID - 4.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DICKIDE

HALTE . O OF DARTS MITTELL

	STA	TION -	NE	NO	77014	9	RAYSIDE	SUC	BURY	ALRSI	HED					VON	н :	DEC	80						
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24	0	0	0	0			ŏ	ŏ	ŏ		o	ō	ō	ō	0	0		0	0	0	1		2	1	0
25	0	0	0	0	0	0		ő	ŏ		ŏ	ŏ	ŏ	ŏ	o	0	U	o	0	0	0	0	0	1	6
26	1		1	1	1	0	0		Ų				3	8	17	17	16	17	15	14	12	12	7	3	6
27	0	0	0	0	0	0	0	0	0	••••	1	2	3			- 1	1	1	1	- 1	1	1	1	1	2
28	3	5	3	3	2	2	1	1	1	2		1		1	1				ò	ò	ó	ó	0	0	0
29	1	1	1	1	3	1	1	0	0		0	0	0	0	0	0	0	0		٠	٠	ĭ	ĭ	ĭ	ī
30	ò	ò	ò	0	0	0	0	0	0		2	2	2	1	3	0	0	1	1	1	1	1	380	,	3₹6
30	U			,	•	-	-	-	_							2						٥	0	U	
31	1	2	3	3	3	2	2	2	2	2	2	7	18	13	2	1	1	1	1			J			
MEAN		1	•		0	٥	0	1	1		1	,	2	1	1	ŝ	2	3	2	2	2	1	•	1	1.2

PERCENTAGE OF DATA VALID - 96.6 PERCENTAGE OF DATA INVALID - 3.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1990

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE	NO 77014 RAYSIDE	SUDBURY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.4	4	48
FEB	29	0.5	6	26
MAR	28	0.4	3	9
APR	30	0.3	1	.0
MAY	31	0.4	3.	25
JUN	30	0.5	6	32
JUL	30	0.1	2	11
AUG	31	0.2	2	15
SEP	30	0.5	3	27
		0.2	2	9
oct	31		2	7
NOV	29	0.2		47
DEC	31	1.2	7	
YEAR	361	0.4	7	48

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS . O. O. PARTS. WILLICH

STATION		NE	NO	77014	RAYSIDE	SUDBURY	AIRSHED	
STATION	•	NE	NO	77014	RAYSIDE	SUDBURY	AIRSHE	U

MONTH OC	TO 05	06 TO	10	11 10	15	16 1	10 20	21 1	0 25	26 10 39	40 10 49	50 &CVER	TOTAL
JAN	729		2		2		4		0	0	1	0	738
FEB	670		11		0		0		2	2	٥	0	645
MAR	687		8		0		0		0	0	o	0	695
APR	707		4		ĵ		0		٥	0	0	0	712
MAY	726		5		2		3		i	0	0	0	737
JUN	683		4		4		3		3	1	0	0	698
JUL	716		2		1		0		0	0	٥	0	719
AUG	705		2		2		0		0	0	0	0	709
SEP	676		8		0		0		2	1	٥	u	667
OCT	711		4		0		0		0	0	٥	0	715
NOV	682		3		0		0		0	0	. 0	0	685
DEC	683		15		11		7		1	1	1	٥	719
YEAR	8375		68		23		17		9	5	2	0	8499

## FREQUENCY DISTRIBUTION BY PERCENTILES

 PERCENT OF DATA		aument same	-	FREQUENC		TRATIONS	PERCENT				ARITH
VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
95.8	0	0.0	0.0	0.0	0.0	0.6	1.5	4.0	7.4	48	0.4

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	IUR DIO	XIDE								UNITS	. 0.1	01 PA	RTS/M	ILLIO	N							
	STA	TION .	NE	NO	77016	A	SH ST	WATER	TANK		SUDBUR	ł¥.				NON	тн -	MAL	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	ıa	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7	0 0 0 1 2 1	0 0 1 0 3 1	0 0 0 1 0 2 1	1 1 0 3 1	2 0 0 2 3	0 0 1 1 3 1	0 0 1 0 3 1	2 0 1 2 1 3 1	5 0 1 2 0 3	1001121	1 0 0 1 1	1 2 0 1 1	0 0 2 1 1 0	0 0 1 2 1 1 0	0 2 1 2 1 1 0	0 0 1 2 0 1	0 0 1 6 2 0 2	1 4 3 0 2	0 0 1 6 2 0 5	0 0 1 4 2 0 5	1 1 2 3 0	0 0 1 2 3 0 3	0 0 1 3 1 1	0 2 0 1 2 0 1		1 0 1 2 1 1 1
8 9 10	0 3 2	1	5	1 2	0	1	0 4 0	2	0 3 0	0	0	20	4	1 3 0	6	3 1 0	5	2	8	5 1 0	0	0	0	7 0 0		1 2
11 12 13 14 15 16 17 18 19	0 4 4 3 0 0 1 0 0 2	0 6 2 2 0 0 1 1 0 1	1 6 1 2 0 0 1 0 0 0 0	07211001000	0 3 3 1 1 0 0 1 0 0 0 1	3 2 0 0 1 0 0 0	0 2 3 2 0 0 1	0 1 2 1 1 1 1 1 0 0	0 1 2 4 0 0 1 0 0 0 0	0:29001001	1 0 2 1 0	2 2 0 0 0 0 0 0	1 1 2 2 1 0 0 1 0 0 1	2:21000	1 0 0 1 1 1	1 : 2 0 1 0 0 0 1	3:200000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0011015	200000000	2000000	3 . 3 . 0 . 0 . 0	2020001000		1222001001
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 1 2 0 1	1 2 0 0 0 0 1 1 0 1	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 1 0 1 0 0 1	1 1 0 1 0 0 1 0 0 1	1 2 1 0 1 0 3 0 0 0	1 1 0 1 0 1 0 0 0	0 1 1 5 0 0	1 4 0 0 1 1 0 0	0 0 0 0 3 1	1 1 0 0 2 1 3 0 0 1	2 1 0 1 2 0 2 0 0 0	4 1 0 1 0 1 2	0 1 0 1 8 0 0	10000	1 0 0 0 17 1 8 0	0009920	1 1 0 1 0 1 0 0 0	0 0 1 4 0 0 0	200054000	0000		1 0 0 1 2 2 2 0 0
31	0	0	0	0	0	٥	٥	0	0	1	0	o	0	1	0	0	0	0	0	1	0	0	0	0		0
MEAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1		3	1.	.0

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 0.1

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	FU					,																				
	ST	ATION	. NE	NO	77016		ASH ST	WATER	TA	WK,	SUDB	URY				CON	٠.	FEB	80							
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
100		1	1	0	0	٥	4	٥	0	0	1	0	1	0	C	0	1	0	0	0	0	0	1	0	0	
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3	ŏ	ĭ	ĭ	ŏ	ō	ĩ	o	ō	0			0	0	1	0	0	C	o	0	0	1	0	0	0	ů.	
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A	- 1	ī	- 3	1	0		1	1	1	1	1	0		0		1		2	2	0	0	- 1	2	2		
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10	1	1	2	2	1	2	2	3	2	2	3	3	4	3	5	4	3	3	3	3	2	2	1		•	
11	1	1	19	1	o	0	1	1	1	0	0		1	1.	4	1	1	1	2	2	1	1	1	1	•	
12	1	1	1		1	1	1	1	1	0	0	0	0	0	0	0	- 1	·	- 1	7	7		9	7	2	
13	11	5	1	1	1	1	1	0	٥	1	,	1	2	6	2		1	- 1	- 1			5	3	2	- 7	
14	2	2	1	1	1	0	0	0	0	0	- 1	٥	0	1	0		- 1	3	••••		- 4	-		4	3	
15	4	2	2	2	2	1	1	1	1	2	,	,	3	3	7			•		•	- 7	- 7	0	o	ī	
16	3	2	1	1	1	. 1	1	1	1	1	1	1	!		1	2	-	3	ò		- 4	,	ő	ī	2	
17	1	0	0	0	1	0	٠ ١	6	1	4	2		1	- 1			7		Ÿ	- 7	- 7	- 7	1	1	1	
18	1	3	0	0	0	1	0	0	٥	3	0	2	2	2	2	1		- ;	- 1	- 1	- 4	- 1	1	1	1	
19	1	1	0	1	0	3	3	2	1	1	_ 1		- 1		ő	1	ŝ	ó	ò	i	ò	Ó	0	0	1	
20	1	1	2	1	1	2	1	1	1	0	0	0	1	3.	U		_	٠	_		·	_	-			
21	0	0	0	0	0	0	0	0	0	0	1		٥	0	0	0	0	1	1	1	1	2	2	3	1	
22	2	- 1	ō	t	1	1	1	3	4	6	9	0 2	1	1	0	0	0	0	0	0	0		0	٠	- 1	
23	2	5	11	13	1	1	1	0	0	2		0	0	0	0	0	0	2	2	1	- 1	0		6	- 1	
24	ō	1	1	1	1	0	3	1	0	1	С	2	2	0		0	٥	o	c	0	0	٠	0		4	
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21 22 23 24 25 26 27 28	1	1	1	1	1	1	1	1	1	1	2		1	2	2	3	1	1	1	1	- 1	۰	1	- 2	ė	
27	1	0	0	0	1	0	••••	0	0	0	,	0	0	0	1	0	0	0	1	0	ò	ò	. ;	ò	ŏ	
28	1	1	1	1	1	1	1	1	0	0		0	0	0	0	0	0	0	0	٠	ŏ	ö	à	ŏ	ŏ	
29	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	o	U	0	1	·	٠	·	-	170	
MEAN	ĵ	1	1	1	1	1	1	1	1	1	, ,	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	

PERCENTAGE OF DATA VALID - 96.8 PERCENTAGE OF DATA INVALID - 2.9

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. "---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTA	NT -	SULPI	HUR DI	OXIDE								UNITS	٠ ٥.	01 PA	RTS/N	ILLIO	N						
	ST	ATION	- N	E NO	77016	k	ASH S	T WAT	ER TA	NK,	SUDB	JRY				MON	TH -	MAR	80						
HOUR	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2	0	0 2 12	0 1 5	1 1 8	0 1	0 1 1	0	0	6	1 1 1	0	2	0 2 2	0 3 3	3 5 1	0 3 0	0 1	0 2 0	0	1	2 3 1	14 18 0	3 5 1	2 0 1	1 3 2
4 5	,,,,	'1	1	1	2	; ••••	3	20		3	••••		DATA	INVAL	ID - 0	0 2	0 5			2 2	 2 2	1	1 0	. 1	••••••
7 8	1	5	14	15		1	2	21	5	2	2	6		I NVAL	ID -				1		2		12	••••	
10	••••	••••	••••	••••	••••	••••	••••	••••	• • • •	••••	٥	2	1	1	2	2		2	5	3	4	19			
11	2 1	3	1	1 2	1	1	2	1	1	2	1	1	3	13	7	7	3	2	6	8	9	6	3	3	4
13 14 15	1	;	2		2	3	2	1	1	1	0	1	i 1	į	į	i	1	1	1	2	0	2	3 2	3	:
16 17 18	2 0	1	1 2		1	1	1	;	1	1	1	1	1 0	;	1	1	ò	0	0	0	0	0	0	0	
19	0	2	1	1 2	2	2	1	1	1	1 2	1	;	1 2	1 2	2	2	2	2	3	2	2	2	2	2	2
21 22 23	1 0	3 1 1	1	1	1	1	1	1	1	1 1 : 3	1	1 2	1	13	1 32 1		1	1 2	1	0 2		1 0 6	6 0	1 0 2 1	1 3 2
24 25 26 27	7 0 1	0	1	1	5	1	0	0 1	0	ī	0	Ö		2 2 2	6	4	0	1	0	0	0	1 1 3	0	1	0 1 1
28 29 30	2 2	2	1		2 2	3 2 2		3	1 2 15	21	2		2	2 2 4	2 2	2	2	4 2 2	3 2		3	3	1 2	2 2 1	
31	2	2	3		3	6	3	3	2	2	2	. 3	2	2	2	υ	U	1	1	1	0	U	1	1	ě
MEAN	2	2	2		2 2	2	1	3	2	2	- 1		2	2	3	2	1	1	3	1	2	3	2	1	1.8

PERCENTAGE OF DATA VALID - 85.1

PERCENTAGE OF DATA INVALID - 14.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- NE	NO	77016		ASH ST	WATER	TAN	ıK,	SUDBU	RY				MON	тн - ,	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	1.2	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	0	1	0	!	0	0	1	1	1		0	1	1	3	8	4	2	3.	1	0	1	1	10	6	2
5	1	7	- 1	- ;	ĭ	ĭ	1	1	00000	ĭ	ĭ	3	-	ĭ	2	2	5	4	2	ŏ	1	0	0000	0	1
ă	1	ò	ò	0	0	0	0	0	ō	0	0	3	0	0	1	0	0	1	0	0	1	C	0	0	0
\$	2	0	ŏ	0	0	0	1	2	0	0	0	2	0	1	1	1	0	0	0	1	0	0		0	0
6	9	0	0	0	0	0	0	0	0	Q	0	1	0	0	1	1	0	C	0	1	0	1	1	0	0
7	0	1	0	0	1	1	0	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	,	.1	
8	1	1	3	2	1	1	1	1	1	1	1	2	1	1	4	1	1	1	1	1	3	34	5		2
9	1	1	1	1	1	1		2	1	2	1	1	1	•	1	1	1	1	2	1	1		1	1	!
10	1	1	10	1	1	1	1	1	1	1	1	1	1	1	1	,	į	,	1	1	1	•	1	1	1
11	1	1	1	1	1	1	3	4	4	3	4	3	2	2	2		?	3	1	7	2		•	•	•
12	1	i	- 1	1	1	1	1	1	1	1	1	1	0	1	0	1	C	1	0	1	0	0	0	0	1
13	o	0	0	0	0	0	0	1	0	0	0	0	0	0	*	1	1	1	0	0	0	0	0	0	0
14	ō	1	1	1	1	0	0	0	1	0	0	1	1	2	1	1	1	C	1	1	0	1	0	1	,
15	1	0	3	2	1	1	1	1	1 .		••••	1	3	1	0	1	٥	0	0	0	0	o	0	0	•
16 17 18 19	1	1	1	1	1	1	1	1	1	1		1	1	1	1	- 1		1	1	1	1	1	2	1	1
17	2	1	1	1	2	2	1	1	2	1	1	1	1	1	2	1	4	4	4	2	4	3	1	2	2
18	1	1	1	1	1	1	2	1	1	1	1	2	1		1	1		2	3	3	1	1	1	2	1
19	2	2	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	9	4	3
20	1	1	1	1	1	1	1	,	1	1	1	í	,	1	1	1	1	1	1	2	1	1	1	1	
21 22 23 24 25 26 27 28 29	1	1	1	1	1	1	1		1	1	1		1	1	0	1	1	1	1	1	1	1	1	0	1
22	0	٥	0	1		- 1	1	1	1	- 1		1	1	- 3	1	- 1	- 1	à	ò	ò	4	ò	0	ò	- 1
23	1	1	1	0	1	7	1	ò	1	4	6	11	9	14	36	23		6	ĭ	Ÿ	٠	2	3	3	5
24	0	o	0	0	٥	0	9	٠	1	1		- 11	1	14	36	23	- (	٩		- 1	- 1	1	1	1	ĭ
25	2	- !	- 1	1	- 2	- }	1		2	20	4	9	á	2	2	- 1	- 1	,	,	- 6	- 1		•	i	3
26	- 1	- 1	1		1	- 1	- 1		1	20		7	7	- 1	1	- 1	- 1	- 4	- 1	- 2	- 1		2	1	1
27	- 1	-	1	2		3	4	,	4	3	5	,	- 4	- 1	2	,	4	- 4	i	- 0	- 1	2	3	3	2
20	- 1	•			- 1	2	2	3	1	7			6	5	4	- 7	- 1	- 1	•	i i	- 1	- 7	1	1	2
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MEAN	1	1	1	1	1	1	1	1	2	2	1	2	3	2	3	3		3.	1	1	1				15, 31-3

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 0.8

MOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- \$	ULPH	DIO RL	XIDE							U	NITS	- 0.0	1 PAR	RTS/MI	LLIO	N						
	STA	TION -	NE	NO '	77016	A	SH ST	WATER	TANK		SUDBUR	łY.				NON	Гн - М	14 Y	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
3 4 5	1 1 1	1 2 1	1 2 1 1 1	2 1 2 1	1 1 1	1	1	4	1 3 1 7	1 3 1 5 1	1 1 6 4	7 1 1 20 2	1 1 3 2	1 3 1	2 1 1 2	1 1 6 2	2 2	1 1 1 2	4 1 1 1 1 1 1	3 1 1 1 1 2	1 1 1 2	3 1 2 1 2	1 1 1 1	2 1 2 1	2 1 3 1
6 7 8 9	1 0 2 9	1	000	0 0	0 0 2	1 1 3	0	0	001	0 0	0	1 2	3 1 0 2	16 1 0 0	0	0 0 1	0	0001	0	0 1 1 1	0 0 1	6 2	0 1 3 2	0 1 8 2	0 1 2
11 12 13 14 15 16 17 18	210011111	1 1 0 1 4 1 1 1 2	2 6 1 0 1 1 1 1 1 6	2 2 1 0 1 2 1 1 1 3	1 2 1 0 1 1 2 1 2	1 2 1 1 2 1 1 2	1 2 1 0 1 1 1 1 1 1	1 2 0 0 1 1 1 1 1 2	1 9 1 0 1 1 1 1 1 6	130011115	3 4 2 0 1 1 1 1 1 1 2	1 3 3 1 6 1 1 3 1 5	1 3 0 1 5 1 1 2 1 2	1 2 1 1 1 1 1 1 1 1	1311111	3	1 3 1 1 1 1 1 1 2	1 9 0 1 1 2 1 1 2	1 2 0 1 3 2 1 1 1 1 1	1 5 49 5 1 1	2 5 2 19 2 5 1 2 1 3	1 3 0 2 14 13 1 8	1 0 1 9 5 1 2 1 3	5	1 3 3 2 1 2 1 3
21 22 23 24 25 26 27 28 29 30	2 10 11 1 1 2	1 1 3 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 1 10 4 1 1 1 2 1 2	4 1 1 7 1 1 1 2 1 1	11 3 8 8 1 1	11 9 3 13 1 1	2 56 11 2 1 1	1 26 8 1 1	28311112	4 4 1 1 2 1 1 2 1 1 2	4 7 3 2 1 1 0 6	574211552	5 6 16 2 1 1 1 1 1 2	4 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 5 5 2 1 1 1 1 2	7 4 3 2 1 1 1 1 2 2 2	5 2 1 1 2 2	5 2 1 1 1 3 1 2	3 4 4 2 1 1 2 2 2 2 2	10 4 10 2 1 1 2 4 2 2	13 10 9 1 1 1 1 3 1 2	11 5 3 1 1 2 1 2	2 2 1 1 1 1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5764111121212
31 MEAN	2	2	2	2	2	2	2	2	1 2	1 2	1 2	3	5 3	3 2	2	1 2	2	1 2	1 2	1	1 3	3	1 2	2	2.2

PERCENTAGE OF DATA VALID - 99.3

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE . 0.4

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O.C. PARTS WILLION

	STA	TION	· NE	NO	77016	1	ASH ST	WATE	R TA	NK,	SUDBU	IF Y				VON'	тн - ,	,UN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
3 4 5 6 7 8	1 0 1 2 1 1 0	0 0 6 1 0 0	0 0 5	1002104	0 0 2 1 0 1	1 0 0 2 1 1 1	0 0 0 2 1 0 0	0 0 0	0 0 0 1 3 1 1	0 2 0 1 6 0 0	0 2 6 0 12 0	0 6 1 4	2021	0 0 2 1 2 1 1	0 0 2 2 1 0 1	0 2 1	053021101	0002	0 3 0 0 2 1	0 0 2 1 1 1 1 1 1	0 0 2 1 1 1 1	0 1 0 0 2 2 1 1 1 1	0 6 2 1 1 1 1 1 1	1 7 0 0 0 2 1 1 1 3 1 1	0 0 2 2 2 1 1
10 11 12 13 14 15 16 17 18	1 1 2 3 1 0 4 2 0 0	5 2 0 0	1 7 1 2 2 1 0 6 1 0 1	1 1 9 2 2 2 0 2 1 1 0 0	1 13 2 2 2 1 13 1 0 0	2 2 2 1 0 0	1 2 2 2 1 0 1 1 0 0	1 1 2 2 1 0 4 1 0 0	1 2 3 1 0 7 1 0 0	1 32 1 0 4 0 0 0	1 8 2 1 0	3 1 1 0 1 0 0 0	1 1 2 2 1 1 0 1 0 1 0	1 1 1 1 1 0 7 0	2 4 0 16 0	1 : 2 : 1 : 1 : 3 : 0 : 8 : 0	5 1 4 0 9 0	1 2 3 1 1 2 0 1 0	1 2 3 0 1 1 0 0 0	3 1 0 0 1	1 2 1 1 4 0 0 1	1 2 8 0 2 3	1 : 2 1 0 3 2 0 0	3 4 0 2 4 0 0 0	1 2 2 1 1 4 1 2 0
21 22 23 24 25 26 27 28 29 30	0 4 1 10 11 3 0 0 0 1 2	0 12 1 8 21 8 0 1 0	0 18 1 12 34 6 0 0 1 1	0236550111	0 1 2 4 5 5 0 1 1	0 1 2 2 18 2 0 2 1 1	0 1 1 3 5 1 0 1 1 1 1	0 0 4 6 11 1 0 1 1 1 1	0 1 4 4 23 3 1 1 1 1 3	3 1 1 5 5 5 1 1 1 3	5 1 0 5 5 2 0 1 1 1 2 2 2	3 2 0 5 5 4 1 1 1 2 2 2	14 1 7 7 16 1 1 1 2	21 2 16  2 1 2 1	16 11 11 10 3 1	7 1 4 10	2 1 8 6 2 1 1 0 1 1 2	5 4 5 0 1 0 1 1	3 1 3 4 2 0 2 1 1 1 1	1 2 1 3 0 1 0 1 2	2 1 1 3 1 0 1 0 1 1 1	1 1 3 1 0 2 1 1 4 4	1 1 4 1 0 2 0 1 1 2	2 1 10 18 2 0 1 0 1 6	3 2 3 7 9 3 1 1 1 2

PERCENTAGE OF DATA VALID - 96.1 PERCENTAGE OF DATA INVALID - 3.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

... INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLI	LUTANT	- \$1	JLPH	UR DIO	XIDE							·	NITS	- 0.0	1 PAR	TS/MI	LLIO	N						
	STAT	TION -	NE	NO	77016	A	SH ST	WATER	TANK		SUDBUR	aY.				MONT	H - J	UL	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	13 1 4 0 2 1 1 3 1 2	5 1 6 0 2 1 1 2 1 3	3 1 1 2 1 1 2 1 1 5	7 1 6 0 2 1 2 2 1 8	7 0 1 0 2 1 3 5 0 5	6 1 3 0 2 1 7 5 1 3	1010212212	1 7 0 2 1 3 2 0 2	1060211102	1 1 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 3 1 1	1 4 1 2 1 1 1	3 4 2 1 1 1 8	1 4 10 2 2 1 1 1 8	1 1 6 8 2 1 1 1 2 4	1 2 4 17 2 1 2 1 4	1 3 5 1 1 2 1 4	1 1 3 2 2 2 2 2 2 5 5	3 3 2 1 3 2 1 1 9	1 3 1 2 1 2 2 1 1 4	1 2 1 2 1 5 2 1 1 4	3 2 1 3 2 1 1 2	1 2 1 3 2 2 1 2	1 6 4 2 1 1 2 1 1 2	3 1 4 3 2 2 2 2 1 5
11 12 13 14 15 16 17 18 19 20	205211224	2072212122	2 1 3 2 1 0 2 1 2 4	201121125	6 0 0 1 1 1 1 1 1 1 2 7	2 0 1 3 1 1 1 1 3 12	2 0 1 4 2 1 1 1 2 2	1 1 0 4 1 1 1 1 2 2	1 1 3 2 1 1 1 2 6	2 1 1 2 4 3 2	1 2 3 1 0 1 6 7	1060402382	1 18 0 2 0 1 4 17 2	1 47 0 3 1 2 3 31 2	1 13 0 3 2 2 2 13 6	1 1 4 2 2 3 1 2 7	1 1 4 3 2 2 8 1 4	1 : 4 1 3 2 1 2 3 4	1 1 2 2 1 2 8 2	1 1 2 2 2 6 2	1 2 2 1 2 2 10 2	1 2 1 1 2 2 2 2	0:22121221	2 2 0 2 1 2 2 2 2	5 2 2 1 1 2 6 4
21 22 23 24 25 26 27 28 29 30	1 1 0 0 0 1 1 1 9 0	1100011120	0 0 1 0 1 0 1 0 1	1 0 0 3 1 1 2 1 2 0	3 1 0 0 0 1 1 1 3 0 0	2 1 0 2 1 1 2 1 1 0	2 0 0 7 0 1 1 1 0 0	4002121100	7 1 0 3 2 2 2 3 1 4	5 1 0 3 0 3 5 1 2 0	2 4 2 1	2 1 6 2 3 5 2 10 0	1 0 0 4 1 11 8 2	1 0 1 2 14 3 1	0 1 0 1 3 1 1 2	1 0 1 1 8 1	1 0 3 2 4 1 0 0 9	0 0 3 3 2 1 0 0 2	1 0 1 2 3 1 1 0 0 6	1 0 0 1 1 2 0 0 1	2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 7 7	3 0 0 0 0 1 1 2 . 0 8	00001112005	2002132122
31 MEAN	1 2	1	5 2	7	8 2	1 2	1	1	9	1	2	1 3	1	1 5	3	1 3	3	2	2	2	2	2	1	1	2.2

PERCENTAGE OF DATA VALID - 99.1

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA QUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	POL	TION - NE NO 77016 ASH ST WATE											,	2 WT 12	- 0.1	JI PA	K 13/6	ILLIU							
	STA	TION	- NE	NO	77016		ASH S	T WATE	R TAN	NK.	SUDBU	RY				MON	тн -	AUG	80						
HOUR DAY	1	2	3	4	5	6	7	в	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	2 1 1 0 0 1 0 0 2	2 9 2 1 1 0 0 2 1 1	1 4 0 1 1 3 1 2 1 0	2 1 0 0 1 0 5 2 1 0	0 1 2 1	00015512	1 2 0 1 1 6 0 2 1 0	2 6 0 0 1 1 2 1 1 0	4 2 0 1 1 5 	1 0 0 1 0 6	3 1 0 16 0 16 •••••	23 0 23 0 32 1	36 1 0 2 0 31 1 1	2 1 27 1 0 9 2 3 1 2	3 1 3 1 10 3 3	2 1 0 1 1 3 4 4 1 1	2 3 0 1 0 2 3 6 1 2	2 2 0 1 0 1 6 1 1	2 1 0 1 0 1 3 5 1 1	20001062611	9 9 1 1 0 4 2 1 1 2	2 6 0 1 0 0 0 2 1 1 5	0 0 0 2 1 1	1 0 1 0 4 2 1 0 1	2 0 7 2 2 1 2
11 12 13 14 15 16 17 18 19 20	2 1 0 1 0 0 0 0 2 2	1 0 2 1 0 0 1 2 1	1 0 2 0 0 0 1 1 1	0 0 0 0 1 1 1	0 1 1 1 1 1	0 1 0 1 0 1 1	000	1 1 2 1 0 0 0 1 1 1	1 5 1 0 1 1 1 1 1 1 1 1	3 0 1 0	1 8 1 0 0 0 1 1	1 11 1 1 1 1 1 3	1 0 0 1 1 6 2	1 1 1 0 0 1 1 37 2	1 0 1 1 1 25 2	1 1 0 1 1 1 26 1	1 0 1 0 1 17 0	1 1 1 1 1 3 0	0 1 1 0 1 1 3 0 0	0 1 1 0 0 0 2 2 0	1 0 1 0 1 2 0	1 1 0 0 0 1 2 0	1 0 0 0 0 0 1 2 0	0 1 0 0 3 2 0	2 1 0 0 1 1 6 1
21 22 23 24 25 26 27 28 29	39 1 2 2 0 0 1	0 0 1 18 3 2 1 0 0 1	0 1 21 6 2 1 0 0	0 1 2 3 2 2 0 0	0 1 1 2 2 1 0 0 1	0 0 1 1 2 2 1 0 0 1	0 0 1 2 1 0 0 1	0 0 1 1 1 1 0 1	1012121011	0 1 1 2 1 2 1 0 1 1	0 2 2 5 7 5 1	0 1 1 10 6 6 0 0	0 2 1 10 3 5 0 0	0 2 1 8 8 5 1 0 0 2	0 2 1 5 3 8 0 0 0	0 2 1 4 9 9 0 0 1 2	1 2 3 3 4 3 0 1 0 2	0 1 7 3 2 2 0 1 0 2	0 1 3 5 2 2 1 1 0 2	0 1 2 1 1 2 2 0 0 1 2	0 1 2 2 2 5 0 0 1 2	0 1 6 1 1 1 1 0 0 1 2	0 1 5 2 2 9 0 0 0 2	0 1 11 2 2 4 0 0 0	7 3 4 1 0 0 2
31 MEAN	1 2	2	5 2	2 1	2 1	4 1	1	1	1	1	8	14	14	9	5 3	3	4	5 2	1	1	1	2	1	1	2.0

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE							U	NITS	. 0.0	1 PAR	TS/MI	LLIC	N						
	STA	TION .	NE	NO	77016		SH ST	WATER	TANK.		SUDBUR	Y				MONT	H · S	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	0	11	12	13	14	15	16	17	18	19	20	21	22	23	24 :	MEAN
1 2 3 4 5 6 7 8	2 1 0 1 2 0 0 0 1	1 0 1 3 1 0 0 1	23	1 13 0 1 31 1 0 0 1	1 17 1 1 28 1 0	2 6 0 1 13 1 0 1 2	1 3 0 1 6 1 0 1 2	1 3 0 0 11 1	2 3 1 1 4 1 1 0 5	1 4 1 1 2 1 0 1 4	2 2 6 1 2 1 1 0 3	1 3 7 1 4 1 0 2 2	1 2 5 1 3 0 1 1	2 1 7 1 1 2 1 16 1	6 1 2 1 2 1 20 1	3 1 3 1 2 1 1 1 12	2 1 2 2 1 1 1 8 1	2 1 2 2 1 1 3 3 1	1 1 2 1 0 3 1 1	1 1 1 1 1 1 0	1 1 2 1 1 1 1 1 1	5 1 0 0 1 0	1 1 7 0 0 0 1 0	1 1 0 2 1 0 0 1 0	2 3 2 2 6 1 1 3
10 11 12 13 14 15 16 17 18 19	5 0 0 1 0 1 1 1 2 1	8 0 0 1 1 1 1	10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 1 1 1 1 1 1 1 1	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 0 1 1 2 1 1 0 1 2	3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 0 1 1	1 0 1 1 2 0 1 2 3	1 0 0 1 1 1 1 0 4	1 0 1 2 2 1 0 1 1 2	1 1 1 2 1 1 1 2 2 1 1 2 2 2 2 2 2 2 2 2	1 1 1 3 1 1 2 2	1 1 1 5 1 1 2 1	1 1 2 1 1 4 1	2 1 1 1 1 1 2 1	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 1 1	4	1 1 1 1 4 4 4 1 0 1	2 3 1 1 2 1 0 1	1 1 2 1 0 1	2	3	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29 30	0 0 1 1 1 2 2 0 1 3 1	0 0 1 1 0 1 5 0 1 3 1	1 0 1 1 1 1 0 0 4 2	0 0 1 1 1 0 0 6 2	1 0 1 0 1 0 0 2 2	1 0 1 1 1 1 2 2 2	0 2 1 1 1 0 1 0 0 1	10002100001	0 1 1 1 0 0 0 0 1 1	0112100101	0 0 1 2 1 1 1 0 1 1 1	1 2 1 1 0 3 0 1 1	3 1 1 1 3 0 1 1 1	0 3 1 1 1 0 4 1 1 3 2	0 3 1 0 1 0 3 5 1 3	1 2 1 1 1 0 2 7 2	2 2 1 1 0 2 8 1 3 2	4 1 1 1 1 1 0 6 1 2 2 2	5 1 1 2 1 2 1 2 1	10 1 0 1 0 1 4 2 2 2	1 2 1 0 2 0 0 1 1 2 1 2	1 1 1 0 0 9 2 1	0 1 1 1 0 0 4 2 1	1 0 0 2 2 1	1 1 1 1 0 2 2 2 1 2 2 1 . 5

PERCENTAGE OF DATA VALID - 99.4 PERCENTAGE OF DATA INVALID - 0.0 PERCENTAGE OF DATA UNAVAILABLE - 0.6

- 2. \*-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	ρΔι	UTANI		ULPH	UR 010	XICE							U	NITS	- 0 0	1 PAR	15/M1	LITON	ı						
		TION			77016		5H ST	WATER	TANK.		SUDBUR	Y				VENT	н • о	CT	80						
		2	3	4	5	6	7	8	9 1	0	11	12	13	14	15	'6	1.7	18	19	20	21	22	23	24 ME	AN
DAY	•	•	•	- 7	-	-															0	5	3	•	1
	1	1	1		1		1	1	1	0	٥	1	1	1	2	2	0	4	0	ò	Ö	õ	ŏ	o	0
2		3	3	o	0	0	0	0	0	0	0	٥	- 1	0	0		Ÿ	ĭ	ĭ	ĭ	ĩ	1	2	1	1
4	· •	•••	ō	0	0	0	0	0	2	1	1	- 1	1			2	- 1	- 1		1	1	1	1	1	1
4	ĭ	2	2	2		1	1	1	1	1	1	- 1	- 1	1	1	1	13	13	10	8	5	4	3	3	3
- 2		7	1	1	1	1	1	1	1	1	1	- 1	1	1	- 1	1	1,3	, ,	1	2	4	4	,	1	1
2	2	2	- 1	1	1	1	1	1	1	1	1	1	- !	1		5	2	1	í	- 7	1	1	3	2	
2	7	- 7		1	0	0	1	1	0	1	0	- 1	•	7	1		1	o	1	•	i	0	1	1	1
	- 1	à	,	1	1	1	2	1	1	•	*	- 1	1	1		- 1	- 1	Ü	0	1	1	4	2	2	1
	î	•	1	36	0	1	1	1	1	0	0	- 1	1			- 1	- 1	ĭ	ī	î	1	1	1	1	1
10	î	1	1	1	0	1	0	1	1	0	1	1										0	Ü	0	1
		74		1	1	1	1	1	0	0	1	1	-4	4	1	1	1	1	1	1	0	~	ŏ	ĩ	0
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12	0	0	1	ŏ	ò	1	ī	ō	î	5	C	C	2	0	٥		6	9	15	5	ĭ	ō	ī	- 7	2
13	0	ĭ	ò	ĭ	ŏ	Ó	1	1	1	1	1	1	1	- 1	1	5	15	12	11	17	5	10	7	5	5
14	1		٠	- ;	ĭ	ĭ	1	1	1	0	1	1	1	1.1	8	6			- 11	1/	1	2	i	1	3
15	7	2	,	6	5	7	4	5	3	4	2	3	4	2	2		2	1	- 1	2	1	1	2	î	1
16		1		1	1	- 1	1	ī	1	1	1	1	- 1	1	1	1		4	5	3	5	ò	- 7	0	3
17	1	2	2	2	3	4	3	5	3	t	4	8	4	5	3	3	8		2	•	ō	0	o	o	1
18	0	ő	1	ō	ŏ	o	0	0	0	0	0	٥	0	2	3	3	3	0	ő	ò	ő	ŏ	ĭ	ō	0
19	0	ĭ	ò	ŏ	ŏ	ŏ	0	0	0	1	1	1	0	1	0	0		U	U						
20	U		- 7			1,000	_	_	2	0	Ö	0	0	0	0	0	1	0	0	0	0	0	1	0	0
21	0	0	0	1	1	1	0	0	0 0 0	×	ŏ	č	ĭ	õ	õ	1	0	0	0		0	0	0	0	0
22	0	0	0	0	0	0	000	0	ŏ	0	0	0	o	ō	ō	1	0	0	0	1	0			1	٠
23	0		0	1		1	0	ŏ	ž	ĭ		ī	- 1	1	1	2	1	1	1	1	2	1	1	1	
24	0	1	0	0		0	Ÿ	ĭ	2	i		2	- 1	2	1	1	1	1	1	- 1	1	,	1	1	1
25	1	1	2	1			ò	1	ō	i	î	1	1	1		1	1	1	1	1	1	1	1	ò	
26	1	- 1	1	1		1	1	1	ĭ	i	- 1	1	2	1	0	0		0	0	- 1	0	1	1	1	ò
27	2	1	2		5	- 1	i	ò	ò	1		1	0	0	1	0	0	C	0	0	0	0	2	6	3
28	1	0	0	1	1	0	ò	ŏ	ŏ	ò		o	2	2	5	3	3	3	5	5	3	2	5	2	3
29	0	0	1	0			2	2	2	2		2	2	2	2	2	2	2	2	4	5	8	3	7	•
30	3	3	2	2	2	2	-		- 7			==	24		0	0	0	0	0	٥	0	0	0	ü	1
31	3	3	3	3	5	8	8	9	3	2	. 1	0	J	0	U	_	1.50	-	-		,	2	1	1	1.3
MEAN	1	1	1	,	1	1	1	1	1	1	1	1	1	2	1	2	2	2	2	2		•			

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.5

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	9011	UTANT		ULPH	UR DIO	X I DE							, u	NITS	- 0.0	1 PAR	T5/MI	LLION	i						
		ION -			77016		SH ST	WATER	TANK	۲.	SUDBUR	Y.				MONT	H - N	OV	80						
	STAT						7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
DAY	1	2	3	•	5	6		•	•		20.00	0.00												-	
		-	_	_			0	0	0	0	0	٥	0	0	0	0	٥	1	0	0	0	0	1	0	0
1	1	0	0	0	0	0	ŏ	ŏ	1	ō	1	5	10	6	4	4	2	1	C	0	1				- 7
2	0	1	0	0	2	2	1	ĭ	1	ĭ	1	ō	1	1	1	1	1	2	1	1	1	1	ò	ò	- 4
3	1	1	1	- 1	2	2	i	2	ò	ò	o	- 1	0	1	0	0	2	0	0	1	0	0	Ö	ŏ	ò
4	1	1	1	1	6		1	ő	ŏ	ŏ	ō	0	0	0	0	0	0	0	1	1	0	0	ŏ	ő	•
5	0	0	0	0	0	0	ŏ	ĭ	1	ŏ	ĭ		5	1	1	0		0	0	0	0	0	0	ŏ	
6	7	3	2	3	1	1	0	- 1	4	3	4	4	5	0	0	0	1	0	0		0	0	2	Ÿ	:
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8	0	٥	0	0	0		0	1	0	1	2	ŏ	Ĩ	2	8	3	1	0	0	0	0	0	0	ŏ	ż
9	1	0	0	0	0	0	1			ò	ō	ĭ	ò	ō	0	0	0	1	0	1	0	0	1	U	•
10	0	0	0	0	0	0	0	0	1	U	U	-	•		-	-	-					-	0	1	0
11	1	0	0	1	1	0	0	0	0	1	0	1	0	0	4	0	0	1	0	0	1	2	3		•
12	o	1	0	0	0	0	0	0	0	1	0	0	- 4	Ÿ	1	ī	1		1	1	1	1	1	1	1
13	2	1	2	1	1	2	2	2	1	1	1	1			ò	ò	ò	0	2	1	3	0	2	1	1
14	ī	1 .	• • •	1	1	1	1	1	1	1	0	0	•	0	ŏ	o	ŏ	ō	ō	0	1	0	0	0	2
15		- 1	3	26	19	3	1	0	0	0	0	0	. 1	9	5	ă	2	1	- 7	1	0	1	1	1	2
16	o	á	ŏ	ō		0	1	0	0	1	0	0	12		•	2	1	î	1	ò	1	1	0	1	1
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18	í			1	1	1	1	1	1	1	1	1	3		2	2	2	4	Ä	3	7	5	6	5	3
19	i	•	- 6	1	1	8	1	2	3	6	1		3	7		7	- 7		1	1	1	1	1	1	3
20	12	6	6	9	12	2	12	2	1	1	1		1	•									2		4
	1	1	3	2		1	1	2	ì	1	1	1	1	1	2	- 1	1	1	1	1	1	1	1	ì	1
21	2	3	2	- 7		1	1	2	1	1	1	1	1	2	1	1	2	2	- :	- 4	2	1	1	2	1
22	1	1	- 1	- 1	- 1	1	1	1	1	2	2	2	2	2	2	2	:	6	- 1	ò	- 7	4	1	2	1
23	1	- 1	- 2			2	1	1	1	1	1	1	-1	- 1	- 1	- 1	1	ĭ	;	·		- 4	1	4	1
24	1	- 1			2	- 7	1	1	1	1	1	1	- 4	. 1	1	1	- 1	- 1	2	i		- 0	2	2	2
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26	6	3				1	- 7	1	1	1	1	1	1	1	1	1	1	1		ò	- 1	ò	2	2	1
27		!	- 1	- 1		•	- 1	i	1	1	0	0	0	0	0	0	0	1	0	2	12	12	5	1	2
28	1	- 1	• !			- 7	ò	Ô	1	0	0	0	0	0	0	0	0	0	0	2	12	0	- 7	•	3
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30	2	٥	4	•	. 3		(5.5%)	***	-					2	,		1		4	1	1	1	1	1	1.3
MEAN	2	1	1	:	2	1	2	1	1	1	1	1	2	2	,	•	,	,							

PERCENTAGE OF DATA UNAVAILABLE - 0.4

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.3 NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

#### UNITS - C OF PARTS/MILLION

	ST	ATION	- NE	NO	77016	i	ASH S	T WAT	ER TA	NK.	SUCBU	RY				Mon	тн •	DEC	80						
HOUR	Ħ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7	0 0	0 0	1 1 1 0 0	0 1 1 0 0	0 0	1 0	1 1 1 0	0 1 0	1 0		0 0		O O O O CATA	INVAL	. 01	2 0 1	201	2 1 8 0	7 0	9 0 0	1 0 0		1 0 0	0 0 0 1	 0 0
10		••••		••••		••••	••••	••••	••••	••••	0	••••	DATA	O	0	0	• • • •		0	0	0	1	0	0	
11 12 13 14 15 16 17 18 19	0 3 1 2 1 1 1 3 0 0	9 3 1 1 2 1 1 1 1 0 1	6 4 1 1 1 1 1 1 1 0 0	4 4 1 1 1 1 2 1 0 0		1 1 1 1 1 1 1 1 1 1	4 3 1 1 1 2 1 1 0	4 3 1 1 2 1 2 1 1 1	4 2 1 6 1 2 1 1	4 1 1 3 1 1 1 0	5 1 1 0 0	3 1 1 1 6 1 2 1 0 0	3 2 1 1 4 1 1 1	1 2 0	1 2 1	1 1 2 1 0 0	211112150	1 1 1 1 1 6	2 1 1 1 2 0 27	0 0 18	5 2 1 1 0 0	1	25	1 1 2 . 0 0	3 3 1 1 2 1 2 1 0 2
21 22 23 24 25 26 27 28 29 30	1 2 2 1 1 2 2 4 4 2 2 2 3	2	0 3 2 1 1 2 1 2 3 2 2	0 17 3 1 1 2 1 2 7 2	4 2 1 3 2 2 2 1 1	2 2 3 2 1 2 2 2 2 2	1 1 2 1 9 2 2 2 2 2 2 2 3	0121422222	0 1 2 1 2 3 3 3 3 1 2 5	0 0 2 1 3 6 3 2 2 2 2 3	0 0 2 1 3 2 2 2 2 2 2 2 2	0002166222333	1 1 4 1 4 2 2 2 2 3 2 2 0	1 2 5 1 3 2 2 4 2 2 2 0	291222422	1 1 4 1 1 1 2 2 2 2 2 2 2 2	2 2 1 2 2 2 2 2 2 2 2 2	1 2 3 2 2 0	21  1 2 1 2 2 2 2 2	20 2 2 1 2 1 2 4 1 2 0	9 2 2 1 2 1 3 6 2 2 0	5 2 2 1 2 1 3 7 2 3 0	0 2 1 1 2 2 2 2 2 2 0	3 1 3 2 2 3 3	3 2 3 3 2 2 3 3 2 2 2 3 3 2 2 2 3 3 2 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 2 3 3 3 2 3
MEAN	1	2	1	2	2	1	2	2	2	2	1	2	1	1	2	1	2	2	3	3	2	2	2	1	1.7

PERCENTAGE OF DATA VALID - 83.2 PERCENTAGE OF DATA INVALID - 15.5

PERCENTAGE OF DATA UNAVAILABLE - 1.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE	NO 77016 ASH ST WAT	TER TANK. SUDBURY		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
MAL	31	1.0	3	1.7
FEB	29	1.0	3	13
MAR	25	1.8	5	32
APR	30	1.4	5	36
MAY	31	2.2	7	56
JUN	29	1.9	9	34
JUL	31	2.2	5	47
AUG	31	2.0	7	39
SEP	30	1.5	6	31
oct	31	1.3	5	17
NOV	30	1.3	3	26
DEC	25	1.7	3	27
YEAR	353	1.6	9	56

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLICN

PULLUIAMI . 30	atriion o	IOXIDE							
STATION - NE	NO 770	16 ASH	ST WATER	TANK. SU	DBURY				
MONTH OC	TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 TO 39	40 10 49	50 GOVER	TOTAL
JAN	722	15	1	1	0	0	٥	0	739
FEB	663	8	3	c	0	0	O	0	674
MAR	596	22	8	d.	3	1	*)	o	6.1.1
APR	692	13	4	1	1	1	C	0	712
MAY	682	40	10	4	0	1	Í	1	739
JUN	642	29	9	7	4	1	0	0	692
JUL	672	46	13	4	0	1	1	0	737
AUG	675	32	7	4	4	7	٥	0	730
SEP	688	17	5	4	1	2	٥	0	716
OCT	710	21	7	,	0	0	0	0	739
NOV	688	15	10	,	0	1	c	0	715
DEC	594	18	1		2	1	0	o	619
YEAR	8025	276	78	3:	15	16	2	1	8445

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT OF DATA VALID MIN 10 CONCENTRATIONS
FREQUENCY DISTRIBUTION. PERCENT
50 70 90 95 ARITH MEAN 99 MAX 30 98 1.6 12.9 56 1.0 2.8 5.0 9.0 96.1 0 0.0 0.1 0.5

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

	POLL	TAATU	- SI	JLPHL	R DIOX	IDE							,	INITS	- 0.0	DI PAR	RTS/MI	LLION	•						
	STAT	ION -	NE	NO 7	7017	M	ORGAN	SUDBU	RY	AIRSHE	0					MON	TH - J	AN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
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11 12 13 14 15 16 17 18 19	2000091000	2 0 0 0 3 2 0 0 0	2000072000	2000062000	0 0 0 0 7 1 0 0 0	1000052000	1000023000	0000042000	0000043000	0 0 0 0 1 4 0 0 0	0000049000	0000022000	000000000	000000000	000001000	0 0 0 0 1 0 0 0	0 0 0 0 0 0	0 0 0 1 4 1 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0000000000	0000812000	0000132000
21 22 23 24 25 26 27 28 29	0 2 0 0 0 0 0 0 4 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	010000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	0000000000	000000000	0000000000	0000000000	0000000000	000000000	1000000000	0000000000	000000000	000000000	000000000	000000000	000000000	000001000	10000000	100000000	100000000	00000000	000000000000000000000000000000000000000	000001000
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	٥	0	0	٥	U
MEAN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0.3

PERCENTAGE OF DATA VALID - 99.7

PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. --</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS MILLION

	STA	TION	· NI	E NO	77017		ORGAN	SUDE	URY	AIRSHI	0					NON	TH - 1	FEB	80						
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ü		0
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15	0	0	0	0	0	0	٥	0	0	0	0	0	0	O	0	0	0	0		2	2	- 1	2	2	0
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17		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	c	0	٥	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0		0	0	0	0	0	0	O	٥	٥	Ç	0	0	0	0	0	0
19	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	٥	0	1	1	0
20	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	O	0	0	0	٥	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0000	0	0	0	0	0	C	1	6	4	3	1	1	1	1	1	1
24	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	e	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0
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27	0	0	1	7	5	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	1
28	0	0	0	0	0	0	0	0	0	0	0	O	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	٥	0	0	0	0	0	0	0	0
MEAN	0	٥	0	0	0	٥	0	0	0	0	0	o	0	0	0		1	1	3	1	1	1	0	0	0.4
	200	9.77	100	0.00	-			0.00																	

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. .. INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	P	LLUT	ANT -	SULP	HUR D	OXID	E							UNITS	- 0	01 PA	RTS/N	ILL10	N							
	S	OITAT	N - 1	NE NO	7701	7	MORGA	4 SU	DBURY	AIRSH	1ED					MON	TH -	MAR	80							
HOUR	.1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	E
1 2 3 4 5 6 7 8 9	000000	0000000		00000	00000	00000	000000	000000	00000	00000	0000000		DATA	O O O O O O O O O O O O O O O O O O O		00000	0000001	1	0 0 0 0 0 0 0 1	0000000	000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0		• • • • • • • •
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21 22 23 24 25 26 27 28 29	••••	••••	••••	••••	••••	••••	****	••••	••••	••••	••••		DATA DATA DATA DATA DATA DATA	INVALII INVALII INVALII INVALII INVALII INVALII INVALII INVALII		o	0	0	o	0	0	o	o	(	••••	••
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PERCENTAGE OF DATA VALID - 43.3 PERCENTAGE OF DATA INVALID - 56.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. \*- INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - O.C. PARTS, MILLION

				-																						
	ST	ATION	i -	NE	NO	77017		MORGA	N SUC	BURY	AIRS	HED					NON	тн -	APR	80						
HOUR DAY		2		3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1														CATA	INVALI	0 -	o	0	2	,	5	19	1	)	0	
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20	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	٥	O	٥	0	О	0	٠		7.7.0	
21	0	0		0	0	0	0	0	0	0						0		1	0	0	0 0 0	0	0	0	0	0 0 0 0 0 0
22	0	0		0	0	0	0	0	1	5	5	4	5		13	10			~	Š	ž	5	ō	ő		ō
23	0	0		0	0	0	0	0	0	2		0	0		ļ	0	0	õ	0	0	č	0	ŏ	ŏ		ō
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MEAN	0	0		0	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	,	J		·	Ų. ·

PERCENTAGE OF DATA VALID - 56.8 PERCENTAGE OF DATA INVALID - 43.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- SI	ULPHU	R DIO	XIDE							u	NITS	· o.0	01 PA	RTS/M	ILLIO	N							
	STAT	ION -	NE	NO 7	7017	M	ORGAN	SUDBL	JRY	AIRSHE	D					HON	TH - 1	MAY	80							
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEA	N
1 2 3 4 5 6 7 8	000000	01000000	0 1 0 0 0 0 1 0	00000000	00000000	0000000	00001000	0000000	000000	0 1 0 0 0 0	0 1 0 0 5 0 0 0	0 0 0 4 0 0 0 0 DATA					00000	000000	000000	00000	0 0 0 0 1 0 -	0000010	0000000	0		0000100
11 12 13 14 15 16 17 18 19												- DATA - DATA - DATA - CATA - CATA - DATA	UNA UNA UNA UNA UNA UNA UNA	VAILA VAILA VAILA VAILA VAILA VAILA	81E 81E 81E 81E 81E 81E											8
21 22 23 24 25 26 27 28 29												- DATA - DATA - GATA - CATA - DATA - DATA - CATA - CATA	UNA UNA UNA UNA UNA UNA	VAILA VAILA VAILA VAILA VAILA VAILA VAILA	81E 81E 81E 81E 81E 81E											
31												- DATA	UŅĀ	VAILA	BLE	-										
MEAN	1	0	0	0	0	0	0	0	0	1	- 1	1	0	0	0	0	0	0	0	0	0	0	0		0	0.2

PERCENTAGE OF DATA VALID . 24.2

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 75.7

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

YEAR

2312

23

UNITS - 0.01 PARTS/MILLION

STATION -	NE NO 77017 MORGAN	SUDBURY	AIRSHED			
MONTH	NO OF DAYS	1	AVERAGE	CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	Y	٥.	3	3	24
FEB	29	*	0.	4	6	20
MAR	12	ŝ,	0.	3	2	11
APR	17		0.	4	2	19
MAY	7		0.	2	ĭ	6
YEAR	96		0.	4	6	24

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980 UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - NE NO 77017 MORGAN SUDBURY AIRSHED MONTH OO TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 GOVER TOTAL 0 0 5 1 2 JAN 734 0 696 . 5 0 2 FEB 322 1 0 MAR 319 2 0 0 2 1 0 APR 401 5 0 0 0 180 MAY 179 1

FREQUENCY DISTRIBUTION BY PERCENTILES PERCENT CONCENTRATIONS FREQUENCY DISTRIBUTION. PERCENT 50 70 90 95 MEAN 10 30 98 MIN VALID 0.4 64.4 0 0.0 0.0 0.0 0.0 0.3 6.9 4.4 1.6

0

0

2349

UNITS - 0.01 PARTS, WILLION POLLUTANT - SULPHUR DIOXIDE MONTH - JAN 80 ST. CHARLES SUDBURY AIRSHED STATION . NE NO 77018 22 23 24 MEAN 9 10 11 12 HOUR DAY a ... 13 0 0 5 2 0 0 1 0 0 0000-48000 0 0 1 0 2 ō 105-000 ..... 0 2 1 0 13 1 0 0 0 0 1 00-22 04-5000000 12 13 14 15 16 8-00004 0000-0 0 .... 1 \*\*\*\* 0 7 0 0 1 6 18 3 0 0 1 1 9 3 2 0 0 11 7 3 ...0 000-22 23 24 25 26 27 -0000-0000 . . . 4 7 3 ::: 29 30 ō 

0 0 0 0

2 3

PERCENTAGE OF DATA VALID - 97.6

MEAN

0 0 0 0 0

PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

0 0 0 0

0 0 0

1.1

1 0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

0 0 0 0

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE ST. CHARLES SUDBURY AIRSHED MONTH . FEB 80 STATION - NE NO 77018 24 MEAN 16 17 20 21 11 12 HOUR NOOON-0000 000000-004 0 0 000004-001 0000-0000 0000-0000 00003400-:::: 00-8 0 2 O 0 2 -0000000---001000011 12 13 14 15 16 17 18 19 20 --00000011 11000+00 00000--Ó ò 20000-00 0-000. 22 23 24 25 26 27 28 29 --0000000 1000. 0.5 MEAN 

PERCENTAGE OF DATA VALID - 97.4

PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. \*- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE ST. CHARLES SUDBURY AIRSHED MONTH . MAR STATION - NE NO 77018 24 MEAN 17 18 HOUR 00000-0-00 0000-0-00 2 3 4 5 6 7 8 9 10 0000-0303 030-0-00-020-06000 0 1 2 0 0 0 0 2 CATA ò 0--0000 o 00-0-0-DATA UNAVAILABLE
DATA UNAVAILABLE 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 .... 0 0 1 0 0 000-0 00-00 o 0 .... o 

PERCENTAGE OF DATA VALID - 47.4

MEAN

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 50.4

0 0 0 0 0

0 0

0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTA	NT -	SULP	HUR DI	OXIDE								UNIT	s - o	.01 P	ARTS/	WILLIC	N						
	ST	ATION	- NI	NO.	77016	1	ST.	CHARLES	SU	BURY	AIRSHE	0				N1O	NTH -	APR	80						
HOUR	1	2	3	4	.5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	33	23	24	MEAN
1 2 3 4 5 6 7 8	0	0	0	0	0	0	••••	, ō	•••	••••	0	0	DATA DATA DATA DATA DATA DATA	I NVAI I NVAI I NVAI I NVAI I NVAI	LID - LID - LID - LID -	****		••••				0		••••	0
10	0	0	0	0	0	0	Č	0	0	0	ŏ	0							0	0	0	ŏ	ŏ	0	0
11 12 13 14	••••	0	0	0	0	••••	(	0	0	C		. D	DATA DATA DATA	INVA INVA INVA INVA INVAI	LID -		••••	••••	****	••••	,,	••••	****	••••	******
16 17 18 19 20	0	. 0 0	0	0	0	. 0	,	 0 0 1 2	0 1 0	0 1	0 1	. 000	0	0	0	0	0	4	0 0 2 0	0	0 1 0	0 0 1 0	0 0 0	0000	1
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0	00000	00000	0	00001000	000000000		0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0	0	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 0 0 0 0 0 0 0 0	0700000	0000	120000	004500000	00320000000		0 1 0 0 0 0 0
MEAN	0	0	0	0	0	0		0	0	٥	0	0	0	0	0	C	C	1	1	0	0	1	0	٥	0.2

PERCENTAGE OF DATA VALID - 55.6

PERCENTAGE OF DATA INVALID - 34.4

PERCENTAGE OF DATA UNAVAILABLE - 10.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	PO	LLUTA	ιT - !	SULPH	UR DI	OXIDE								UNITS	- 0.	G1 P4	RTS/A	11110	N						
	51	ATION	. NE	NO	77018	i	ST. C	HARLES	SUDBUR	Y	AIRSHE	D				MC:2	TH .	MAY	80						
HOUR	1	2	3	4	5	6	7	6	9 1	0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1 2 3 4 5 6 7 8 9	000000000000000000000000000000000000000	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000100100	000000000000000000000000000000000000000	0 1 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0100000110	0 1 0 1 1 0 0 0 2 2 0 0	100100	0000-00000	0 0 0 1 5 1 0 4 0	0000000000000	0 0 0 0 0 1 0 0	00000	000000000000000000000000000000000000000	0000000000	000001000	000000000	000000-000	0000000000		000000110
11 12 13 14 15 16 17 18 19	000000000			000000000000000000000000000000000000000	000000000	100000000	1000000000	0000	0 0 0 0 0 0 0 1	0000000000	0000200000	001010000	000000000000000000000000000000000000000	1 00000	0 6 2 0 0 0	005000000000000000000000000000000000000	00300-000	0000	00300000	00000	00100000	00000000	0000000	000000000000000000000000000000000000000	00000000
21 22 23 24 25 26 27 28 29 30	0000000000	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000	00000000	0	000000000000000000000000000000000000000	1 0 0 0	001000000	0120000001	021000001	0 1 8 0 0 0 0 0	0010000001	0000000000	0000000000	00000	0	00000000	00000000	0000000	000000000	000001000	0000001000	000000000000000000000000000000000000000	00100000000
31 Mean	0	0	0	0	0	0	0		0	0	0	1	0	0	0	0	0		0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 96.9 PERCENTAGE OF DATA INVALID - 3.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- 5	ULPHI	JR D103	IDE							U	NITS	. 0.0	1 PAR	TS/MI	LLION							
	STAT	ION -	NE	NO 1	77018	ST	. CHARL	ES	SUDBU	RY	AIRSHE	D				MONT	н - ј	UN	80						
HOUR	•	2	3	4	5	6	7 6	I	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
1 2 3 4 5 6 7 8	00000000	00000000	000000000	0000000000	00000400	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000000000	000000000	0 0 0 0 1 0 0	000000000	000000-00	00000-000	000001000	0000000-0	000000000	000000000	0000100008	0000-0000	0000100000	000000000	000000100	00000000	000001002
10 11 12 13 14 15 16 17 18 19	0 0001100000	0 0 0 0 0 0 0 0 0	0 0110000000	1 0110000000	2 0110000000	0 000000000	0 0 0		200010000	5 0000000000	4 0000000000	4 000000000	1 0000000000000000000000000000000000000	0 6000000000	0 4000000000	- N 300000000	20000-0000	1 5000000000	0 0 0 0 0 0 0 0 0 0	00000000	0000000	0 0 1 2 0 0 0 0 0	300000	0000	100000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	0000000000	0000000000	0000000000	000000000000000000000000000000000000000	00000000	0000000000	0 0 0	000000000	000000000	00000000	000000000	300000000000000000000000000000000000000	000000000	00000000	0 0 0 0 0 0 0	0000010000	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 1	000000000	0000000000	0000000000	0	00000000
MEAN	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

	PU	CLUIA		SULPHI	OM D1	UXIDE									9.											
	ŞT	ATION	- NE	NO	77018		ST. C	CHARLE	s sub	BURY	AIRSH	ED				MON	тн -	بال د	80							
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	1.4	15	16	17	16	19	20	21	22	23	54	KEAN	
1 2 3 4 5 6 7 8		0000000	0000000	00000000	000000000000000000000000000000000000000	00000000	000000000000000000000000000000000000000	00000	0000000	000000000	0	0000000000	000	0 0 0 0 0 0 0 0 0	0000000000	0 1 0 3 3 3 3 0 0 0 0 0 0	0-000000000	040000000	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000			0 0 0 0 0 0 0 0 0		
11 12 13 14 15 16 17 18 19	0 0 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 0	000	0 0 1	0		0 0 0 1	1		DATA DATA DATA	O O O O O O O O O O O O O O O O O O O		0000	0 1 0						:	••••	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
21 22 23 24 25 26 27 28 29 30												*****	DATA DATA DATA DATA DATA DATA DATA DATA	INVALID INVALID INVALID INVALID INVALID INVALID INVALID INVALID												
MEAN	o	0	٥	0	0	0	0	0	0	0	0	1	٥	0	0	0	0	0	,	0	0	0	0	٥	0.2	1

PERCENTAGE OF DATA VALID - 42.7

PERCENTAGE OF DATA INVALID . 57.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - AUG ST. CHARLES SUDBURY AIRSHED 24 MEAN HOUR DATA INVALID DATA INVALID DATA INVALID DATA INVALID 1 2 3 4 5 6 7 8 9 10 0 0 0 1 00--0000-0 0000-00000 00.0000000 02000. 00000-0001 0-00000000 0.2

PERCENTAGE OF DATA VALID - 84.8

MEAN

PERCENTAGE OF DATA INVALID - 14.8

PERCENTAGE OF DATA UNAVAILABLE - 0.4

- \*- INDICATES DATA IS UNAVAILABLE
- 3. " -- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	PUL	LUIANI	- 3	ULFH	OR DIO	AIDE																			
	STA	TION -	NE	NO	77018	S	т. сн	ARLES	SUDB	URY	AIRSH	ED				NON	тн + ;	SEP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	v	o	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	O	1	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	1	4	2	2	1	1	1	1	0	0	0	0	1
4		0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	õ	0	0	0	0		0	0	0
5	00000	0	0	0	0	000	0	0	0	0	0	0	0	0	0	0	U	G	0		0	0	0	0	9
6	0	0	0	0	0	0	0	0	0	0	2		1	3	4	1	U	C	0	0	0	0	0	0	1
7	0	0	0	0	0		0	0	0	0	0	0	i)	1	2	1	Ç.	4	2	2	1	1	0	ö	ò
8	0	0	0	0	0	0	0	0	0	0	0	J	3	0	C	2	υ	o	0	0	0	0	0	8	ŏ
9	0	0	0	0	0	0	0	٥	0	0	0	U	0	0	0	3	õ	0	0	0	0	0	ö	ő	ŏ
10	2	0	0	0	0	0	0	0	0	0	3	O	0	0	0	0	U	0	0	0	0	0	O		U
11	0	0	0	0	0	0	0	0	2	5	4	3	3		٥	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	0	1	1	1	1	1	1	•		2	1	0	0	0	0	0	0	ž
13	0	0	U	0	Ú	U	0	٥	0	O	ō	ũ	0	٥	ō	~		00000	000000	5	5	~	õ	õ	č
14	0	0	0		0	0	0	0	0	0	0	٥	٥	1	1	0	C	Ü	Ö	0	0	0	0	ő	ŏ
15	0	0	0	0	0	٥	0	٥	1	1	1	1		0	0	0	000	Č	ŏ	0	0	0	0	ŏ	ŏ
16	0	0	0	0	0	0	0	٥	0	0	٥	0	0	0	0	0	č	Ö	0	0	0	ő	ŏ	ŏ	č
17	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	č	0	0	ő	0	ő	ő	ŏ	ň
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő	ŏ			ő	0	ő	ŏ	ŏ	ŏ
19	0	0	0	0	0	٥	0	٥	0	0	0	0	0	0	0	٠		C	0	ő	0	ŏ	ŏ	ŏ	ŏ
20	0	0	0	0	0	0	1	1	,	1	1	0	0	0	1	1	- 1	4	0	U	U	U		·	•
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0000000	0	0	000	0	00000000	000	1	•
22	0	0	0	0	1	1	1	2	4	2	1	1	0	0	0	0	2	0	0	0	0	Ö	ŏ	ŏ	÷
23	0	1	0	1	0 0 0	0	0	0	0	0	0	0	0		0	0	2	0	0	0	0	ŏ	ŏ	ŏ	č
24	0	0	0	0	0	0	0	0	0	0		4	2	0	0	0	ŏ	0	0	o	0	0	0	ö	ŏ
25	0	0	0	0	0	٥	0	0	0	0		0	0	0	0	0	~	0	ŏ	ŏ	0	ŏ	ŏ	ŏ	ŏ
23 24 25 26	0	0	0	0	0	000000	0	o	0	٥		0	0	0 0 0	0	0	Š	0	0	000	0	0	ő	ŏ	ŏ
27	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	ŏ	2	1	o	o	0	ŏ	ŏ	ŏ	ŏ
28	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	ő	ò	ő	٥	0	ŏ	ő	ŏ.	ŏ
29	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	ő	0	ŏ	ó	ő	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
30	0	0	0	0	0	0	0	0	0	0	U	U	U	U	U	U			U		٠				
MEAN	0	0	0	0	0	0	0	٥	0	0	1	0	J	U	υ	U	U	Ų	0	0	O	u	ن	ō	3.2

PERCENTAGE OF DATA VALID - 99.7 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POL	LUTANT	- 5	ULPHL	R DIO	X I DE							,	INITS	. 0.0	I PAF	RTS/MI	LLIO	4						
	STA	TION -	NE	NO 7	7018	Si	г. сн	ARLES	SUD	BURY	AIRSH	D				MON	TH - C	CT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0000000000	000000000000000000000000000000000000000	0000000000	0000000000	0 0 0 0 0 0 0 0	00000000	000000000	0000000000	010000000	010000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 7 0 0 0 0 0 0 0 0	0 17 0 0 0 1 1 0 0	030000030	0 0 0 0 1 0 1 0	500001000	04000000-0	0 - 0 - 0 0 0 0 - 0	0001000000	0000000000	000000000	000000000	000000000	0000000000	200000000
11 12 13 14 15 16 17 18 19	0000000000	0000000-0	0000000000	0000000000	000000000	002000010	002000000	001000001	0000000	000010031	000000000000000000000000000000000000000	0000110003	0 0 0 1 1 0 0 4 1	000000000000000000000000000000000000000	0000100010	1 0 0 0 0 0 0	000000000	0000000000	000000000	00000000	000000001	00000001	000000000	000000000	0 0 0 0 0 1 0
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	000000000	0000000000	0000000000	0000-0000	0 0 0 0 1 0 0 0 0	0000000000	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 1 0 0 0 0	000000000000000000000000000000000000000	001000	1 0 0 3 1 0 0 0	000000000000000000000000000000000000000	0 0 0 0 2 0 1 1 0	0 0 0 1 0 1	0000000000	0 0 0 0 1 0 7 0 0	000000000000000000000000000000000000000	000001200	000000100	1000000000	0000-0000	000000000000000000000000000000000000000	0 0 0 1 0 0
31	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	7	2	3	3	2	1	1	1	1	:	•
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID . 99.7 PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . D. DI PARIS MILLION

	STA	TION	· NE	NO	77018	3	T. CH	ARLES	SUDB	URY	AIRSHE	D				MON	TH - 1	VCV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	10	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	00000000	000000000	*00000000	1000100000	10000	2 0 0 0 0 0 0 0 0	3 0 0 0 1 0 0 0 0	20000000000	0000004000	0000000000	0 0 0 0 0 0 0 0 0	0011001000	0 1 1 0 0 1 0 0 0	0711000000	0 12 1 5 0 1 0 0 0	7 0 0 0 0	000000000	000000000000000000000000000000000000000	0000000000	002000220	002000330	0011000300	00000000000		0 1 0 0 1 0 0 0
11 12 13 14 15 16 17 18 19	000000000	00000000	000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	000000010	. 000000000	000000000000000000000000000000000000000	0001000000	0000000000	0004000000	000010010	0101000	03031-0300	090000000	501100000	0 3 0 1 1 0 0 0 0 0	0 1 0 0 0 0 0	0000000000	0000000	0000000	0 0 0 0 0 0
21 22 23 24 25 26 27 28 29	1 4 1 0 0 0 0 0 0	14 1 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0	100000000	000000000000000000000000000000000000000	1000000000	000000000	0 0 1 0 0 0 0 1 0	001000000	0010.00000	001000000	00-000000	0110000000	0 1 1 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0	0 0 0 0 0 0 0	00-0000000	001000000000000000000000000000000000000	001000000	0000000000	0100000000	1 00000000		0 0 0 0 0 0
MEAN	0	1	0	0	0	0	0	0	٥.	0	0	U	0	Y	1		î	ì	U	v	v	ú	3	٥	5.3

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. "\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT . SULPHUR DIOXIDE UNITS - Q Q' PARTS/MILLION STATION - NE NO 77018 ST. CHARLES SUDBURY AIRSHED MONTH - DEC 80 HOUR 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 MEAN 1 2 3 4 5 6 7 8 9 100-0-0000000-0 000000000 0000000000 00000-00000 0-0900-0-0 00000000 00001000010 4000001030 00000000-00000-030 100001000 00-00000 0000-000 001220 11 12 13 14 15 16 17 18 19 20 10 0 0 1 00-0-0-000 0 0 11000100001 3021 20101 11100000 0 ... 01000 21 22 23 24 25 26 27 28 29 0 0 0 00-000 00 3 \*\*\*\*\*\*\* 0110000110 0010001 00-005000-0010030001 90-000000 50-000000-10000000 10021 1000000 10000001 0 0 31 0 0 0 0 0 0 0 MEAN 0 0 0 1 0 0 0 1 1 0 0 1 0 0.6

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 1.5

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - G.O. PARTS, MILLION

TATION - NE	NO 77018 ST. CHARLE	S SUDBURY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXINUM	MAXIMUM READING
JAN	31	1.1	5	20
FEB	29	0.5	3	14
MAR	15	0.4	2	6
APR	15	0.2	1	12
MAY	31	0.2	1	10
JUN	30	0.2	2	8
JUL	13	0.2	1	i.i
AUG	26	0.2	1	12
SEP	30	0.2	1.	8
oct	31	0.3	2	17
VGM	30	0.3	2	14
DEC	31	0.6	2	11
YEAR	312	0.4	5	20

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GR	OUP FREQUE	NCY DIST	RIBUTION	FOR 1980							
POLLUTANT -	SULPHUR C	301X010				UN	175 - 0.01	PARTS/MILL	NOI		
STATION -	NE NO 770	18 S	T. CHARLE	S SUDBUR	Y AIRSHE	ED					
MONTH	00 TO 05	06 TO 1	0 11 70	15 16 T	20 21	TO 25 26	TO 39 40	TO 49 50	SOVER	TOTAL	
JAN	689	2	2	12	3	٥	0	0	0	726	
FEB	670		6	2	0	0	0	0	0	678	
MAR	349		4	0	0	0	0	0	0	353	
APR	398		1	1	0	0	0	o	0	400	
MAY	718		3	0	o	0	0	a	0	721	
JUN	712		2	0	0	0	0	٥	0	714	
JUL	316		1	1	0	0	o	0	0	318	
AUG	627		3	1	0	0	0	0	0	631	
SEP	717		1	0	0	0	0	0	0	718	
ост	738		3	٥	1	0	0	0	0	742	
NOV	707		4	3	0	0	0	0	0	714	
DEC	720		9	4	0	0	0	٥	0	733	
YEAR	7361	15	9	24	4	٥	o	٥	0	7448	
FREQUENCY	DISTRIBUT	ION BY PE	RCENTILE	S		CONCENTRA	TIONS				
	OF DATA		10	30	FREQUEN 50	CY DISTRIBU			99	MAX	MEAN
	VALID	MIN			0.0		0.7		5.6	20	0.4
	84.8	0	0.0	0.0	0.0	0.0	<b>0</b> , <i>t</i> 1, 3	3.6	3.0	20	*.*

POLLUTANT - SULPHUR DIOXIDE

	STA	TION	- NE	NO	77023	н	APPY	VALL	EY FA	LCONE	RIDGE					MON	тн -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
DAT		*																							20
1	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	ō	0	ō	0	1	1	11.2	• • • •	7	5	29	8	8	2	C	0	0	Э	0	1	0	2	0	0	3
3	0	0	0	0	0	0	0	0			0	0	35	3	2	12	11	2	0	0	0	0	0	0	3
4	0	0	0	0	0	0	0	0	0	0	0	2	3	4	4	3	8	3	3	3	2	1	1	0	- 4
5	0	0	0	0	0	0	0	0	0	0	0	6	5	4	3	3	5	3	4	8	6		2	ò	2
6	****	2	3	5	5	5	4	3	3	3	2	1	1	1	1	1	0	2	7	0	0	0	ő	ő	- 1
7	••••	0	0	0	0	0	0	0	2	1	0	0	0	0	0	8	6	7	á	4	0	ŏ	ŏ	ŏ	,
8		0	0	0	0	0	0	0	0	0	0	0	4	8	10	2	Ö	,	Ö	ö	ŏ	ŏ	ŏ	ŏ	ī
9	****	0	0	0	0	0	0	0	0	0	0	0	ŏ	3	5	0	č	ó	ŏ	ŏ	ŏ	ő	o	ŏ	0
10	****	0	0	0	0	٥	1	1	1		U	U	U	o	U			U	0	•	0				
11	****	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	8	6	1	1	0	,	7	Į.	- 1
12	****	3	8	2	0	0	0	0	0	0	0	0	0	0	O S	٥	0	ა	0	0	0	1	1		4
13		2	U	0	U	U	0	0	0	ū	٥	U	G	ت	Ü	2	2	3	0	ş	0	ő	ŏ	ā	7
14		0	0	0	0	0	0	2	2	2	1	0	0	0	O	0	0	٥	0	0	0	ő	ö	ő	ó
15	****	5	0	0	0	0	0	0	0	0	0	0	0	1	2	0			ő		0	ő	ö	ŏ	ő
16	••••	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	0	ő	ŏ	ő	o	o
17		0	0	0	0	0	0	0	C	0	0	•	0	0	0	0	0	3	ö	ő	ö	ŏ	ŏ	0	ō
18	****	0	0	0	0	0	0	0	0	0	0	0	ő	0	0	ŏ	ŏ	o	ŏ	ŏ	ŏ	ŏ	ŏ	0	o
19	0	0	0	0	0	0	0	0	0	0	ő	٥	ŏ	0	Ö	ŏ	ŏ	ă	ŏ	ŏ	ŏ	ŏ	o	0	0
20	0	0	0	0	U	U	U	U	U	•		٠		Ü	•				-			-77			
21	0	0	0	0	0	0	0	0	0	0	****	0	0	0	7	5	3		• • • •	1	1	0	0	0	ò
22	0		0	0	0	0	0	0	0	0	••••	٥	0	0	0	0	0	2	ó	0	0	0	ó	ő	ŏ
23		0	0	0	0	0	0	0	0	0	. 0	•	••••	0	0	0	2	0	C	0	0	ö	o	ŏ	ŏ
24		0	0	0	0	0	0	0	0	0	••••	0	0	0	O	3	1	1	1	ŏ	ŏ	ŏ	ő	o	ō
25	****	0	0	0	0	0	0	0	0	0	0			ő	3	õ	ò	ò	ò	Ö	ŏ	ő	ő	o	ō
26		0	0	0	0	0	0	0	0	ő	ő	2	15	8		5	5	5	4	4	4	4	4	4	3
27	****	٥	0	0	0	0				0	ő	ő	2	2	6	ő	õ	õ	ō	ō	ō	1	0	0	1
28	••••	1	٥	0	0		2	2	0	0	0	Ö	ő	ő	5	ŏ	ŏ	ŏ	õ	ŏ	ŏ	Ö	ō	0	0
29	****	1	3	0	0	0	0	0	0	0	3	ž	٥	2	4	3	ŭ	ő	ŏ	ŏ	ŏ	ŏ	0	ō	1
30	••••	0	0	Ü	U	0	U		U		3	,	·	-	-	•	•	_	€ <del>=</del>	· 77	-	_			
31	****	4	19	18	2	0	0	13	9	••••	19	42	25	28	19	14	13	2	0	0	O	U	U	Ü	15
MEAN	0	1		1	0	0	0	1	1	0	2	2	4	2	2	2	2	1	1	1	0	0	1	0	1.1

PERCENTAGE OF DATA VALID - 95.2 PERCENTAGE OF DATA INVALID - 4.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	PO	LLUTANT	- 5	ULPH	UR DIO	XIDE								UNITS	• 0.	OI PA	HI2/MI	FFIG	~						
	ST	ATION .	NE	NO	77023	1	HAPPY	VALLEY	FA	LCONB	RIDGE					MON	TH - F	EB	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11.	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8 9	0	0 0 0 2 0 3 0 30 2	0000013000	0 0 0 0 0 2 3	0000033012	0000044011	0000042032	0000042024	0	000000	0 0 0 0 2 0 9 0 0 3	0 0 1 1 7 0 2 1 0 3	0010005323	0 9 0 7 0 14 2 4 3	000000000000000000000000000000000000000	9 0 0 1	0066008002	0000000103	0 0 0 0 0 1 0 3	000000000	000004003	0 0 0 0 1 1 0 0 0 3	0000043101	2 0 0 2 0 4 2 2 1 1	0 1 2 1 5 1 3 2
11 12 13 14 15 16 17 18 19	7 0 0 0	10000	1000080200	0000014	0 0 0 0 0 0 0	0000040000	000000000	000070000	0000050000	00000175000	0000084	0 7 0 4 3 0 2	0 0 0 14 5 0 5 0	000000000000000000000000000000000000000	0 5  1 7 16	0 3 0 2 3 21 0 0 3	0000334001	000000000	0000303000	0000703000	0000801000	00080000	(.0000000000	000000000000000000000000000000000000000	0 1 0 2 6 3 0 0
21 22 23 24 25 26 27 28 29	0000	6 0 0 26 0	6 0 0 0 0 0 0 0 0	56 0 0 0 20 0 0	84 0 0 0 33 0 0	5 0 0 34 0 0	2 0 0 56 0 0	٥	10001900	20 26 1 0	3 0 0 0 1 14	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 2 1 0		01001000	000010000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	100000000	100000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0	0 0 0 0 0 0	7 0 0 0 0 10 0 3 1 0
MEAN	1	3	2	3	5	2	3	2	2	2	2	2	2	2	2	2	1	0	0	0	1	1	1	1	1.7

PERCENTAGE OF DATA VALID - 97.3

PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	ST	ATION	- NE	NO	77023	н	APPY	VALLE	f FA	LCONB	RIDGE					MON.	rH - 1	EAR.	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 1 0	000000000000000000000000000000000000000	0000002050	000000000000000000000000000000000000000	0000011000	0 1 0 0 0 1 0 0 1 0	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5 0 1 0 0 3 0 1 0	911010	005	100301310	35	58 0 0 4 0 0 4 18 3	0	2000	0000000000	2006000001	3 0 0 0 0 0 0	200000-00	2001000400	2000000202	6 0 0 0 0 1 18	2 0 0 0 0 1 18	6 1 3 0 0 1 6 3
11 12 13 14 15 16 17 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0000000000	000000.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	030010000	0 2 0 0 0 0 0 0 0 0 0 0	040000000	20020000	0 2 0 0 0 0 0 0 0 0	1700000	30000000	0 1 0 0 0 0 1	0000100001	0 1 0 0 4 0 5 0 0 1	0 1 0 3 0 0 0	0 0 0 0 1 0 0 0 0	0000400000	0 0 4 0 . 0 0 0	0.000	0 0 0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29	1 0 0 0 0 1 0	102000011	4000000011	200200011	2000	200200000000000000000000000000000000000	30002001000100	18 0 0 1 0 0 0 0 1 0	100	152	61 0 0 1	13 5 0 1 1 0 0 0 0 0 0	0 4 0 1 9 1 1 2 1 0	0 15 2 2 16 12 1	0 10 0 5 20 0	0901901108	0 1 0 2 0 1 1 7	0 0 0 1 0 0 1 3	0 8 0 2 3 0 0 1 2	0 1 0 14 5 0 0 0	36 36 30 00 20	0 1 0 0 1 2 0	0 0 1 2 0 0 1	0000000000	15 3 0 3 4 1 0 0 1 2
31 MEAN	2	0	0	0	4	0	0	0	0	•••• 7	o 3	····	0	4 5	8 5	2	1	0 1	1	0	2	1	1	1	1.8

PERCENTAGE OF DATA VALID - 96.9

PERCENTAGE OF DATA INVALID - 2.2

PERCENTAGE OF DATA UNAVAILABLE - 0.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - 5	SULPH	UR DIC	BOIX							,	INITS	- 0.0	)1 PAI	RTS/M	ILLIO	N						
	STA	TION	. NE	NO	77023		IAPPY	VALLE	Y FA	LCONE	RIDGE					K:ON	TH -	APR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0-0000000	0110000000	0000000000	0000000000	55 00 00 00 00	0200000000	020000000	28 0 0 0 0 0 0 0	000000		000000000000000000000000000000000000000	12 0 5 0 0 0 0	17 19 0 1 0 0	6650000000	6000001000	43 0 13 1 0 0	40112000000	4512601000	1300	0000100100	0000000000	0000100000	100000000000000000000000000000000000000	1000000000	6 20 100000
11 12 13 14 15 16 17 18 19	0 0 0 0 45 0	0000041000	40000	0000030000	000000000	0 0 0 0 3 0 9 0 25	000001011016	1000020800	1000040001		0 0 0 0 17	0 0 0 111 0 29 0	3 0 0 1 71 0 10 42	4 0 0 14 66 0 23 0 2	1 0 0 45 89 0 6 0	3 0 0 15 48 0 4	5 0 1 67 15 0 19	85 0 3 3 0 0	2 1 0 116 0 1 1 0	3 16 0 31 4 0 3 0	15 1 7 0 0 2 0 0	94 0000	139	103	1 0 33 25 0 6
21 22 23 24 25 26 27 28 29	0 0 0 0 2 1 2 2 0 0	600000000000000000000000000000000000000	200000000000000000000000000000000000000	000000000000000000000000000000000000000	0	10 10 00 0	00000181000	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 0 1 0 2 0	0	0 2	9007100000	100311000	8060650000	6 0 5 0 2 0 2 0 0	0021080000	10 3 10 0	3 0 25 0 14 0 0	9112000	0 0 7 0 0 3 0 0	0 0 0 4 1 4 1 0 0 0	0005083000	1232000	0 0 0 2 14 2 0 0 0 1	3 0 1 4 5 4 1 0 0 1
MEAN	2	2	2	î	3	2	2	2	2	1	2	7	6	5	6	5	6	6	5	2	1	4	5	4	3.5

PERCENTAGE OF DATA VALID - 96.3 PERCENTAGE OF DATA INVALID - 3.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	PUL	LUIAN		ULPH		ALDE							-	172,813,00											
	STA	TION	- NE	NO	77023	,	APPY	VALLE	EY FA	LCONBE	RIDGE					NON	H - X	: A Y	80						
HOUR DAY		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	IAN
1 2 3 4 5 6 7 8 9	3 2 2 0 0 0 0 0	00000000	0100000000	35 0 0 0 0 0 0	0 2 36 0 0 0 0	55 0 0 0 0 0	0 9 20 0 0 21 0 0	0 0 0 0 0 0 0	0	1 3 5	0 29 2 5 10 64 9 0	0 16 2 11 36 11 17 0	0 0 10 14 20 0 0	18 6 4 26 1 0 0	0 24 14 14 5 0 0 0	0 3 6 0 0 0 0 0 0 0	17 19 13 00 60 00 00	35 2 5 1 0 0	0 5 14 8 13 00 00 0	0000000000	100-000000	100000000	41 00000	3 0 0 7 0 0 0	2 6 10 2 8 6 2 0 0
11 12 13 14 15 16 17 18 19		0000000000	0 0 0 0 0 0 0 0 0 0 2 8	0 0 0 0 0 1 10 1	0 0 0 0 0 0 1 1	0 0 6 7 0 0 0 1 1	002000000	0 1 5 16 0 1 0 0 1	17	3 0 16 0 2	3 2 5 21 0 62 0	2 3 22 0 53 0 1	0 12 19 34 0 3 0	1 1 0 14 0 9 0	0320030501	0000040500	38 34 00	000000	0 7 0 9 0 10 0 0	0000000000	21 01 00 00 0	35 10 5 1 0 3 0 1	0 0 1 5 18 2 0 0 1 0 1	0 6 7 0 0 0	0 6 6 0 11 0 2 2
21 22 23 24 25 26 27 28 29	36	0 0 0 1 53 29 0	0 0 0 1 61 9	0 0 0 0 0 37 35 0	1 0 0 0 1 20 0	1 0 0 1 8 0	0 0 0 0 1 66 8 0	1 5 0 6 1 35 10 0	0 41 12 2 9		12 1 0 3 2 6 0 0 0 0	6 3 1 0 13 25	16 11 4 11 16 6 0 1	11 11 14 0 21 3 0 0	12 21 0 7 16 0	0 7 24 1 9 22 0 7 0	0 2 4 6 2 0 11	0 5 0 2 7 0 0 0	2 2 2 5 0 0 0 0	31 0 0 0 0	0 2 0 0 0 0 0 0 0 0	0 0 0 7 6 0 0 0 0 0	510000	24	3 3 10 17 5 1
31 MEAN	0	0 3	0	0	0	0	0	0	0		0 8	0 8	7	4 5	3	0	4	3	3	13	0	16	12 5	35	3.7
WE WIS	•	•	•	0.00	-	-		(())																	

PERCENTAGE OF DATA VALID - 97.2 PERCENTAGE OF DATA INVALID - 2.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1: "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT		ULP	HUR DIC	DIXC	E						L	NITS	- 0.0	1 PAF	RT5/M	LLLO	N						
	STA	TION -	NE	NO	77023		HAPPY	VALLE	EY F	LCONB	RIDGE					MON	re - s	JUN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9	13 0 0 0 0	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 0 0 0 0 3 0 1 0 0	6	60000000000	00000	22000000	4 0 14 53 0 0 1 6 0	30	4 0 30 16 0 0 3	101612	0006402000	0 0 8 4 1 0 1 0 5 0	000000000000000000000000000000000000000	0 4 25 0 0 0 82	9 0 0 0 0 17 0	0 4 5 20 0 0 0 0 29	0 0 11 17 0 0 0 0	0 4 0 24 0 0 0 0	0 2 0 9 0 0 2 0 5 0	50000	0000000000	0000010000	3 1 4 11 0 0 1 1
11 12 13 14 15 16 17 18 19 20	2 0 0	1000080004	1 0 0 0 2 14 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0	000000000000000000000000000000000000000	1 0 0 1 1 0 0 0	2006623501	0 2 0 0 24 4 0 69 0	0 13	0 0 0 18 7 0 41 0 27	6 0 0 6 19 0 4 0	10 0 0 6 36 0 3 0	7 0 0 4 7 0 14 0	17 0 0 36 5 0 0 3 0	6 0 0 3 0 7 0	9000800102	17 0 0 16 0 2 0	5400000	0 0 0 27 0 0 1	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 15 0	0000800080	2 0 0 2 9 5 0 7
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00001	0000	0 0 0 0 0 0 0 37 0	00000	0 0 0 0 25	0 0 0 1 0 25 2	0 0 0 1 3 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00024-6004	100104	0 0 0 0 0 1	4 0 4 0 0 3 0 0 0 0 0 0	6056001000	9001000	7 0 0 7 0 1 1 0 0 0	4 0 2 1 0 69 1	97 0000	0 0 1 0 0 56 0 2	53	60000	0 0 0 5 0 0	00000-008	1 0 1 1 0 18 6 0
MEAN	1	1	,	1	2	2		3	7	5	5	4	5	3	5	5	2	7	7	4	3	3	2	1	3.3

PERCENTAGE OF DATA VALID - 96.0

PERCENTAGE OF DATA INVALID - 4.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION FONTH - JUL HAPPY VALLEY FALCONBRIDGE STATION - NE NO 77023 24 MEAN A HOUR 0 0 14 5 3 00600-0000 1 2 3 4 5 6 7 8 9 10 25 00 2000 9 24 12 0 0 . . 0-0000000 00-0200031 12 13 14 15 16 17 18 19 00. 28 0 0 33 0 0 0 0 0 0200-00002 33 0 2 0 1 1 0 0 0 0 1 4 0 6 0 0 0 0 9 0 22 23 24 25 26 27 28 29 30 12 22 0 1 0 0 2 0 0 1 0 0 0 21 1 c c ů ō ō G a ů ů 

PERCENTAGE OF DATA VALID - 98.9

MEAN

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

1.2

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

0 0 0

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIGXIDE HAPPY VALLEY FALCONBRIDGE MONTH . AUG STATION - NE NO 77023 24 MEAN HOUR 20-103-020 200000-00--0000000000 C510090010 006N0N0000 18 0 0 0 0 0 0 0 12 13 14 15 16 17 18 19 20 28 00 49 0 7 0 0 24 0 63 0 0 0 0 23 0 0 25 0 0 0 13 1 0 1 22 23 24 25 26 27 28 29 30 0 0 27 3 0 3 1 0 0 0 00000-0000 000-000000 00400-0000 003000-000 1.6 MEAN 

PERCENTAGE OF DATA VALID -100.0

PERCENTAGE OF DATA INVALID . 0.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - D.C1 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - SEP HAPPY VALLEY FALCONBRIDGE STATION - NE NO 77023 24 MEAN HOUR CO 00-0500000 1 2 3 4 5 6 7 8 9 10 0000-13 0 20 0 0 0000-00000 0000-00000 0 0 17 0 17 0 0 0 00000-11 03 00 0 C 0 20 0 6 0 0 30 12 13 14 15 16 17 18 19 O 0 0 13 0 0 7 43 0 0 000-000000 0-30000600 00:001 22 23 24 25 26 27 28 29 30 0-00000004 -00000

PERCENTAGE OF DATA VALID - 99.6

MEAN

PERCENTAGE OF DATA INVALID . 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

o 

1.3

NOTES 1. ---- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE

a 

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0 01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH . OCT STATION - NE NO 77023 HAPPY VALLEY FALCONBRIDGE 24 MEAN HOUR 0 29 4 000000-000 000-35 0 0 0 0 0000-05000 1 2 3 4 5 6 7 8 9 10 00-0000000 2 0 30 0 2 0 0 0 :::: 0000-00000 12 13 14 15 16 17 18 19 20 00000-0000 12 0 3 15 0 0 8 0 1 1 0 0-0000007 22 23 24 25 26 27 28 29 30 o C C 1.7 MEAN O 

PERCENTAGE OF DATA VALID - 96.6

PERCENTAGE OF DATA INVALID - 3.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

----- INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE NOTES 1.

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

#### UNITS . O. O. PARTS, MILLION

	POLL	. WI MIT		OLFR	UR U.U	~																				
	STAT	ION -	NE	NO	77023	j	HAPPY	VALLEY	FA	LCONB	RIDGE					NON	H · N	ov	80							
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	13	17	18	19	20	21	22	23	24 M	EAN	
1	0	0	0	0	0	0	0	0	0		0	0	0	0	0	o	0	0	0	0	0	1	0	3	3	
2	0	0	1	6	0	0	0	0	0		0	0	2	13	2	18	12	2	1	1	1	D	ŏ	ŏ	ŏ	
3	0	0	0	0	0	0	0	0	0		- 1	1	3	1	0	0	0	0	0	0	0	0		ŏ	ŏ	
4	0	0	0	0	0	0	0	0	0	0	D	0	2	0	0	0	O	1	0	0	0	0	0	õ	ŏ	
5	0	0	0	0	0	0	1	0	0	0	0	0	٥	0	0	O	ũ	0	0	0	0	0		0	ŏ	
6	0	2	o	0	0	0	0	0	0	0	0	0	1	1	0	0	C	2	٥	1	0	0	5	·	2	
7	0	0	0	0	0	0	0	0	0	0	0	C	J	1	21	21	17		9	18	1	12		1		
8	0	0	0	0	0	0	1	1	1		20	0	0	0	3	32	15	4	1	0	1	5	2	1	*	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	15 0 0	0	0	0	0	0	0	0	0	
10	ō	0	ō	0	0	0	0	0	0	• • • •	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	9	
12	o	c	ō	0	0	0	0	0	0		1.1	27	0	ō	2	•	2	1	5	4	2	•				
13	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	٥	۰	
14	0	0	0	1	0	6	2	0	0	0	0	0	0	0	0	a	0	0	٥	0	1	1		1	2	
15	o	ō	1	1	4	1	0	0	0	0	0	0	0	0		٥	0	C	0	0	0	0	0	0	ū	
16	ŏ	ō	Ó	0	0	0	0	0	1	0	0	14	10	5	2	4	4	2	1	1	0	0	0	0	3	
17	o	0	0	0	0	0	0	0	0	0		0	0	0	0	0	٥	0	0	0	0	9	1.	2	1	
18	o	0	2	0	0	1	٥	5	23	1	1	0	3	12	14	0	0	C	0	0	٥	0	0	0	3	
18	o	0	0	0	0	0	1	1	1	1	1	0	0	0	2	3	t	٥	0	1	٥	4	3	1	6	
20	1	1	1	0	o	0	0	0	1	0	0	٥	٥	0	0	0	0	0	0	٥	0	0	0	0	0	
21	0	0	0	0	o	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	o	0	36	13	1	0	0	Q	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	2	
23	ō	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	
23 24 25 26 27	ō	ō	ā	0	0	0	0	0	0	0	11	37	7	59	45	61	7	19	36	95	4	46	40	50	22	
25	7	4	7	11	2	3	8	1	1	1	16	17	0	0	0	٥	0	0	0	3	0	0	0		3	
26	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	3	3	1	1	1	0		
27	ō	0	o	0	0	0		0	0	0	0	0		0	0	0	0	0	0	0	٥	0	0	0	0	
28	ō	ō	ō	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	o	0	ō	ō	0	0	0	0	0	0	٥	0	0	0	0	٥	0	0	0	0	1	2	1	o	0	
30	ō	ō	ō	O	ō	0	0	1	O	1	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	٥	0	2	1	0	٥	0	0	1	0	2	4	1	3	3	5	2	1	2	4	0	3	2	2	1.7	

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

#### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - DEC HAPPY VALLEY FALCONBRIDGE STATION . NE NO 77023 24 MEAN HOUR DAY 20 0 3 0 0 0 1 0 0 0 20 0 3 0 0 0 1 0 0 173 0 3 0 0 0 0 0500000-00 0424000:40 2 3 4 5 6 7 8 9 00-0000000 11 0 9 0 0 0 0 0 0 0 4505000:00 70 0 3 0 0 0 1 0 0 16 00 0 0 1 0 0 0100001000 001000000 NO00000000 00000-0000 12 13 14 15 16 17 18 19 20 02000-000 22 23 24 25 26 27 28 29 55 0 0 0 0 0 1 34 0 0 0 0 0 1 004000-0-0 n 1.5 MEAN

PERCENTAGE OF DATA VALID - 99.2

PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 PARTS, MILLION

STATION . NE	NO 77023 HAPPY VALL	EY FALCONBRIDGE		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAX! NUM	MAXIMUM READING
JAN	31	1., 1	10	42
FEB	29	1.,7	10	84
RAM	31	1.8	15	152
APR	30	3.5	33	139
MAY	31	3.7	17	66
JUN	30	3.3	18	97
JUL	31	1.2	5	43
AUG	31	1.6	11	63
SEP	30	1.3	6	50
ост	31	1.7	17	58
NOV	30	1.7	22	95
DEC	31	1.5	21	173
YEAR	366	2.0	33	173

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY G	ROUP FREQU	ENCY DISTR	IBUTION FO	R 1980						
POLLUTANT	- SULPHUR	DIOXIDE				UNITS .	O.O1 PARTS	MILLION		
STATION -	NE NO 77	023 HA	PPY VALLEY	FALCONBRI	DGE					
MONT	H 00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 TO 39	40 TO 49	50 &0VER	TOTAL	
JAN	669	24	6	4	1	3	1	0	708	
FEB	627	25	6	9	2	5	0	3	677	
MAR	673	17	12	10	1	3	1	4	721	
APR	609	34	14	10	3	4	8	11	693	
MAY	592	44	29	20	44	17	2	8	723	
JUN	592	38	17	13	7	8	5	11	691	
JUL	681	33	11	2	4	4	1	0	736	
AUG	686	22	15	4	5	6	5	1	744	
SEP	672	1.4	10	6	5	8	1	1	717	
OCT	665	21	9	6	3	9	4	2	719	
NOV	669	10	11	7	3	5	3	4	712	
DEC	705	11	3	5	2	6	2	4	738	
YEAR	7840	293	143	96	47	78	33	49	8579	
FREQUENCY	DISTRIBUT! PERCENT	ION BY PER	CENTILES			NTRATIONS				
	OF DATA	MIN	10	30 FREOL	JENCY DISTR	SIBUTION. I	PERCENT 95	98 99	N'AX	MEAN
	97.7	0	0.0	0.0 0.0	0.0	3.8	10.6 24	1.1 37.7	173	2.0

POLLUTANT - SULPHUR DIOXIDE

	PUL	CUIMI		OLFR		07105																			*2
	STA	TION	- NE	NO	77028	E	GOVERN	MENT,	EDWAR	D ST	CON	STON				MONT	тн	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 0 0 0 1 2 0 0	0 0 0 3 1 0	0000400	20000510		0 0 0 4 1	4 0 0 0 0 7 2 0	8 0 0 1 0 4 1 0 0	1000004000	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5002-300.	1 5 0 4 1 1 2 0 2 1	000000000000000000000000000000000000000	0 1 2 2 5 4 1 0 23	00004-080	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 8 3 0 1 12	0 0 6 4 0 1 10 0	0 0 1 6 7 0 1 1 0	0 0 1 6 5 0 2 1 2	0 0 4 4 0 1 1 2	0 0 0 3 3 0 5 2 1	0 0 1 2 0 4 1 1	20006321661
10	0	0	;	1	0	1	0	0	0	0	ò	0	0	0	ŏ	ò	ŏ	ĭ	1	1	ī	1	1	1	0
11 12 13 14 15 16 17 18 19	100100000	1000000001	200000000	2000000000	200000000	70000000	000000000000000000000000000000000000000	1 0 0 0 0 0	1000001000	0010000000	0 0 0 1 0 0 1 0	0 0 0 1 0	0 0 0 2 3 0 0 0 1 0	0002300023	0012300022	0 0 2 0 0 2 1	0 0 1 0 0 0 1 0	001000000000000000000000000000000000000	0010000100	0 0 1 0 0 0 0 0	0 3 1 0 1 0 0 0 0 0	0 0 1 0 0 0 0 0 0 1	0010100000	0.0100000	1 0 0 1 0 0 0 0 0
21 22 23 24 25 26 27 28 29 30	0 0 0 0 1 0 2 2 1 0	0 0 0 0 1 0 2 3 1	0 0 0 1 0 1 2 1 0	00001110010	0 0 0 1 1 0 0 1 1	000000210	0 0 0 1 0 1 2 1 0	000001	000000111	0000100010	0 0 2 1 0 1 0 1 0	0 0 0 3 1 0 4 1 1 0	1 0 0 1 2 0 7 3 1 0	6 0 0 1 2 0	1	5 0 0 3 3 1 3 5 0	3 0 0 2 3 1 2 2 0	3 0 0 1 3 0 3 1 1 1 0 0	33 0 0	30 0	0 0 0 0 2 1 3 18 1 0	0001202210	0 0 0 1 1 1 3 1 0 0	0 0 0 1 1 3 0 1 0 1	10011202610
31	0	0	0	0	1	1	3	1	0	0	٥	0	3	3	3	1 2	0	0	0	1 2	2	0	1	1	1.2
MEAN	0	1	0	1	1	1	1	1	1	0	3	2	3	3	3	- 2	34/	-	_	-	-	10.00	- 1		3.2

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. " -- -- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POL	LUTANT	- 5	SULPH	UR DIO	XIDE							U	NITS	- 0.0	I PA	RTS/M	11110	N							
	STA	TION -	NE	NO	77028	(	GOVERN	MENT/	EDWAR	D 51	CON	ISTON				MON	TH - 1	FEB	80							
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		MEAN	
1 2 3 4 5 6 7 8	1000113004	1000	1 0 0 0 1 1 3 0 0 2	1000122002	1 0 0 0 1 3 4 0 1 2	1 0 0 0 1 4 3 1 0 1	0 0 0 1 4 2 1 1 2	0000141001	0000141001	2 3 4 0 0 1	2 1 9 0 1 2	0 0 0 0 1 23 0 6 3	000018	0 0 0 25 1 1 16 2	0 0 0 1 27 5 3 2 13	0 0 1 32 5 5 25	0 0 0 1 1 0 0 3 43 4	0 0 1 1 0 0 2 33 3	0 0 1 1 0 0 30 3	0 0 1 1 0 0 32 3	0 0 1 1 1 0 1 22 3	0 1 1 0 0 17 2	0 1 1 2 0 0 11 2	0 1 1 4 0 0 5 1	1	0000524112
11 12 13 14 15 16 17 18 19	1 2 0 0 0 7 1 1 1 1	1 1 0 3 0 8 1 1 1 1	1-02031111	1200031111	0 0 0 2 1	0000211111	1 0 0 0 1 1 1 1 1 1	1 1 0 0 0 1 1 1 0 1	1 1 0 0 0 1 1 1 0 1	0000012101	1 0 1 1 0 0 0	1 0 1 2 2 0 0 0	1 0 1 1 1 0 0 0	0 1 0 1 1 0 0	1 2 7 0 1 3 1 0 0 1	1 7 0 0 0 1	0 1 1 0 0 2	1 1 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0:002	0:00312103	1 2 0 0 4 1 3 1 0 3	1000	1 0 0 5 1 5		1 0 1 2 2 1 0 1
21 22 23 24 25 26 27 28 29	1 1 0 0 4 0 1 1 0	1 1 1 0 0 1 1 1 1	1 1 3 1 0 0 0 1 1	1 1 3 1 0 0 0 1 0	1 3 1 0 0	1 3 1 0 1 1 0	14 1 3 2 2 1	1 1 0 1 1 0	1 1 1 1 0 1 0	1 0 3 23 1 0	0 0 0 33 0 0	0 0 2 85 0 0	1 0 4 32 0 1	1 0 0 3 17 0 1	1 0 2 41 0	000000000000000000000000000000000000000	201510010	3 1 2 3 1 0 0 1 0	3 0 1 1 0 0 0 0 0	2 5 1 0 0 0 1	20100011000	1 1 1 0 1 1 0	201001000	000000000000000000000000000000000000000	1	21100010
MEAN	3	1		1	1	1	2	1	1	2	-2	5	3	3	4	4	ن	2	2	2	2	2	;	1	i.	3

PERCENTAGE OF DATA VALID - 98.0 PERCENTAGE OF DATA INVALID - 2.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS WILLICH POLLUTANT - SULPHUR DIOXIDE

	PO	LLUTA	NT -	SULP	HUR DI	OXIDE	i																		
	ST	ATION	- NE	NO	77028	ĭ	GOVER	NMENT.	/EOWA	RD ST	CON	ISTON				MON	тн - :	PAR	80					200.00	
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23		MEAN
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4	1	1	1	1	1	1	1	1	1	1	2	4	3		2	1		- 8	- 1	1	- 7	1	1	1	2
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7	0	0	0	0		0	0	0	0	0	2	6	19	40	31	12	39	9	43	6	6	4	6	9	10
8	0	0	0	0		0	0	0		0		9	5	40	0	ō	C	ć	o	ŏ		0	0	0	2
9	7	6	6	5		6	5	4	3	1	1	2	0	- 1	1	1	ĭ	o	5	ä	5	2	0	0	1
10	0	0	0	0	0	1	1	0	0	0	0	O	U	1.					-	•	-	=			
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20	- 1	2	1	1	1	1	3	1					*											200	_
21	1	2	7	7		2	8	18	0	1	1	0	0	0	0	0	00	0	0	0		0	0	0	0
22	0		0	o		0		ŏ	č	0	ŏ		4	•	- 1	1	1	2	2	1	1	1	1	1	,
23	0		0	0		0			0	1	ŏ		2	14	25	6	2	9	25	2		1	0	0	4
24	1		1	1		ő			á	ò	ŏ		2 3 6	14	25	0	0	0	0	0		1		0	0
25	0		0	C		0	ŏ	0	0	ŏ	4		6	9	2	4	4	2	2	1	0	0	0	0	2
26	0		0	C		0	0	0	ő	ŏ	ō		ŏ	1	ō	0	0	0	0	0	1	0	0	0	0
27 28	0	0	0	0		Ö	0		Ÿ	ő	1	ő	ŏ	i	9	9	4	2	1	1	1		0	0	1
28	0								1	Ÿ	9		ŏ	ò	2	1	2	2	3	4	4	4		0	2
29	0		0				2		2	ò	0	ò	ő	ŏ	1	5	3	9	3	1	1	0	0	0	1
30	0	1	1	C	0	0	0	٥	0	O	U	U	U	0		_									
31	٥	0	0		0	0	0	0	0	٥	0	٥	0	1	7	•	1	1	1	2	1	0		0	1.3
MEAN	1	1	1	1	1	1	1	ť	0	1	1	2	2	3	3	2	3	2	3	1	1	1	1	1	1

PERCENTAGE OF DATA VALID - 94.1 PERCENTAGE OF DATA INVALID - 5.9 PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - S	ULPH	JR DIO	XIDE							U	NITS	- 0.0	1 PAR	TS/MI	LLION	N						
	STA	TION	- NE	NO :	77028	G	OVERN	MENT/	EDWARD	ST	CONI	STON				MONT	н - д	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	0 0 0 1 1 0 1 1 1	0 0 0 1 1 0 1 1 2	0 1 0 1 1 1 1	0 1 0 0 1 2	0 1 0 0 1 0 0 1 2	0000000	0 0 0 0 0 0 1 2	00000000	0 0 3 0 1 1 2	10 0 0 3 0 1 1 2	0 4 0 0 1 1 1 1 2	21 0 0 2 0 1 1 2	16 8	30 1 2 1 2 1	12 1 4 0 1 1 2 1 2 2	16 0 7 0 1 1 2 1 2 2	10 1 1 1 2 0 2 2 3 2	20322022	1 0 1 23 0 2 3 3	1000402321	0 0 3 0 1 1 2 1	0 0 0 8 0 1 1 2 1	0010001121	0 0 0 1 . 2	2 1 0 3 0 1 1 2 1
10 11 12 13 14 15 16 17 18	1 0 2 0 0 1 1 1 1 1 1	1 0 1 0 0 1 1 1 1 1 1	2 1 0 0 0 0 1 1 1 0 1	00000111001	1 0 0 0 1 1 0 0 0	1 0 0 0 0 1 1 0 0 0	1 0 0 0 0 0	2 2000110010	1 0 0 0 1 1 0 20 1 0	1 0 0 0 1 0 0 21 1 1	1 2 0 0 0 1 0 18 1 28	3 0 0 0 1 0 0 20 1 16	0 0 7 0 0 22 1 35	0 0 0 0 7 0 0 11 1 1 1 3	0 0 0 8 0 1 10 1 1	0 1 0 1 5 0 1 7 1 1	0 3 0 0 0 0 0 1 9 2 2	2000001822	1000001822	000100016612	000000000000000000000000000000000000000	0 0 1 1 0 0 1 1 1	0 0 0 1 0 0 1 1	000111111111111111111111111111111111111	00002017715
21 22 23 24 25 28 27 28 29 30	0 0 0 0 2 1 1 1 1	0 0 0 0 2 1 1 1 1 1 1 1	0 0 0 0 2 1 1 1 1 1 1 1 1	0 0 0 1 1 1 1 1 1 1	0 0 0 2 2 2 1 1 2 1	0 0 0 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 2 1 1 1 1	19	6 0 0 8 2 2 1 1 1 1	4 0 0 5 9 2 1 1 1 1	4 0 0 12 11 1 1 0	4 0 0 3 21 1 1	13 0 1 2 12 1 1 1 1 2	12 0 39 0 54 5 9 1 2	2 0 12 26 1 38	18 18 2 1 2 2	2 0 26 24 8 1	2 1 0 34 8 2 11	3 1 0 16 3 1 1	2 1 0 3 2 2 2 1 2 .	2002122112	00061	0 6 1 1 2 1 1 2 2	0 0 0 0 3 6 1 2 1 1 2	3026693411
MEAN	1	1	1	1	1	1	1	1	2	2	3	3	5	6	4	3	4	3	3	1	1	1	1	1	2.1

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 0.0

PERCENTAGE OF DATA UNAVAILABLE - 1.0

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	PO	POLLUTANT - SULPHUR DIOXIDE STATION - NE NO 77028 GOVERNMENT/EDWARD ST CONISTON														JI PAI	RTS, M	ILLIO	N							
	ST	ATION	- NE	NO	77028		GOVER	NMENT	/EDWA	RD ST	CON	t S T O N				NON.	тн -	N:AY	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1 2 3 4 5 6 7 8 9	3 0 0 0 0 0 0 0 0 0	2300000000	3 0 0 0 0 0 0 0 0	3 1 0 0 0 0 0 0 1	170000000	0	160000000	******	2210110000	2 2 7 3 3 2 0 0	14 19 20 38 1 15 0	3 24 9 12 22 3 3 0 4	4 5 11 2 20 0 0 13	13 12 0 1 3 0	6 0 0 0 0 0 0 0 1 0	061100051	8310140001	000710001	1 38 0 0 3 1 0	1000	3000100021	0000000	0000000	00000		5 2 5 2 1 0 2 0
11 12 13 14 15 16 17 18 19	0 0 0 1 1 1 1 1 1 1	0003	0002	0001111330	00000	0 0 0	0 0 0 0 1 3 1	0 0 0 1 1 1 2	000011	0 0 0 1 1 1 1 1	1 4 0 0 1 1 1 1 1 1	0 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6 0 8 1 1 10 1	0 0 0 8 2 1 17	0 0 2 1	0 0 1 1 16 1	4 5 0 0 2 1 3 1 1	3 7 0 0 3 1 3	0 2 0 0 2 1 2 1 1	0 0 1 1 1 1 1 1 1 1	3 0 1 1 2 1 1	0 6 0 1 1 1	000111111111111111111111111111111111111	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 1 1 1 3 2 2
21 22 23 24 25 26 27 28 29 30	1221	1 4	1 3	1 2 3 2 2 2 0 6 2	3 2 2 0 0 1	3 2 2 0 0 1	1 1 5 4 5 1 1 3 1 1 1	1 2 5 2 25 23 34 1	1 2 5 2 27 23 0 1	1 2 6 14 30 0	1 3 3 37 2 16 1	1 8 29 3 5 1	1 3 6 22 9 8 1 1	1 2 2 1 5 1 1 1 1 1	1 1 1 8 0 1 2 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 8 6 1 17 1	1 1 2 10 0 1 12 1 1	1 1 3 20 0 1 1 1	1 1 0	2 1 1 1 1 0 0 1 1 1 0 0	3 2 1 3 0 0 1 1	1 2 1 2 1 0 1 1 1 1 1 1 1	1 2 1 1 1 0 1 1 1		1 2 3 5 7 5 3 2 1 1
31 Mean	1	1	1	1	2		2	2 4	3	3	1 6	5	1 5	3	2	2	1	2	3	1	1	1	1	1	2.	2

PERCENTAGE OF DATA VALID - 94.1 PERCENTAGE OF DATA INVALID - 5.5

PERCENTAGE OF DATA UNAVA: LABLE - 0.4

NOTES 1. " " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	T - 5	SULPH	UR DIO	XIDE							U	NITS	- 0.0	01 PAF	RTS/M	1110	N						
	STA	TION	- NE	NO	77028	0	OVERN	MENT	/EDWAF	RD ST	CON	STCN			-	MONT	гн - ,	JUN	80						
HOUR	,	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	AN .
1 2 3 4 5 6 7 8	1 0 0 1 1 2 0 1	1 1 0 0 1 1 2 0 1	000011100	0 0 0 1 1 0 1 0 1	0000	1 0 0 1 1 1 0 0 0	2002110000	1001120000	1 0 0 4 1 2 1 0 0 0	6001103000	18 2 0 1 2 0 7 0 0	3 1 0 1 4 0 4 0 0 0	0 0 0 1 4 1 3 0 0 0	0 0 0 1 2 1 2 0 0 0	0 0 1 1 1 1 0 4 0	0 0 1 1 0 1 0 1	0 0 1 1 0 0 0 7 0	0 0 1 1 1 0 0 0 0 0	1 1 0 0 0 0	0 0 1 1 1 0 0 0 0	0 0 0 1 1 0 0 1 0 0	0 0 1 1 0 0 0	0 0 0 1 1 0 0 0 0 0	0 0 1 1 1 0 0 0 0	2001
10 11 12 13 14 15 16 17 18 19 20	0 0 0 3 0 0 0 1 1 0 0 0	0 0003001100	0 0003200000	0 1003300000	1 0 0 2 3 0 1 0 0 0	0 00000000000	00027121000	000290000	0 0 1 6 27 0 0	000	0 0 1 7	10 10 00 00	3 0 1 1 3 1 0 0 0 1	0 0 1 2	51004	1 1 1 4 0 1 1	20204	20212201400	200000000000000000000000000000000000000	0020001200	0021001200	0 2 1 0 0 1 0 1 0	0 0 0 0 1 0 3 0	03000-020	3331
212 223 224 225 226 227 228 239	0 0 1 1 2 2 4 0 0 0	34	0 0 1 1 1 1 1 0 0 0 0	0011122100	0000	1 1 20 00 0	0012216000	1 0 1 4 2 1 4 0 0 0	20142114001	4 4 3 4 0 0 3	7 0 1 12 2 49 9 0 0	5 0 1 7 1. 38 7 0 4	12 0 1 13 2 40 4 0 0	8 0 1 12 30 6 0 0	0 0 1 4 2 17 3 0 0	2 2 3 0 0 1	2 1 3 0 0 1	0 1 2 2 1 3 0	2211002	1 0 0 0 2	2 1 2 1 0 0 0 1	2 1 0 0 0	0121230000	1 1 2 10 0 0 0 0 0	2 0 1 3 2 9 5 0 0 :
MEAN	. 1	2	0	1	1	0		2	2	2	4	3	3	2	2	1	1	1	1	0	1	1	1	1	1.4

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.0

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS, MILLION POLLUTANT - SULPHUR DIOXIDE GOVERNMENT/EDWARD ST CONISTON MONTH - UUL BO STATION - NE NO 77028 24 MEAN 13 14 HOUR 0 6 0 5 0 0 0 1 2 3 4 5 6 7 8 9 10 o 0 0 ONOONNOONO 12 13 14 15 16 17 18 19 20 0 2 0 ò 22 23 24 25 26 27 28 29 30 3 2 1 13 0 2 1 

PERCENTAGE OF DATA VALID - 97.4

MEAN

PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE . 0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FA!LURE

- -- INDICATES DATA IS UNAVAILABLE 2.
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - AUG STATION . NE NO 77028 GOVERNMENT/EDWARD ST CONISTON HOUR 2 3 4 5 6 7 8 9 ...! 12 13 14 15 16 17 18 19 20 ò 0 27 22 23 24 25 26 27 28 29 30 000-0 0.9 MEAN

PERCENTAGE OF DATA VALID - 96.4

PERCENTAGE OF DATA INVALID . 3.2

PERCENTAGE OF DATA UNAVAILABLE . 0.4

- ... INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS . O.O. PARTS, MILLION WONTH - SEP STATION - NE NO 77028 GOVERNMENT/EDWARD ST CONISTON 24 MEAN HOUR 2 3 4 5 6 7 8 9 10 o 1 0 32 C 0 0 0 0 000-0 o c 12 13 14 15 16 17 18 19 20 0 7 0 1 0 2 1 0 0 1 1 2 1 2 0000-00000 0 0 1 0 2 0 2 13 1 . 22 23 24 25 26 27 28 29 30 110000.002 --000000000 0000-0000 1 0 6 23 

PERCENTAGE OF DATA VALID - 99.3

MEAN

PERCENTAGE OF DATA INVALID - 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.6

1.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - O OF PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE GOVERNMENT/EDWARD ST CONISTON MONTH - OCT STATION - NE NO 77028 24 MEAN HOUR 3 - 003 - 2002 200-2-2002 1 2 3 4 5 6 7 8 9 10 11 05 20 31 01 11 0 18 4 0 3 0 0 1 10 0 7 27 1 4 0 0 1 31 1 2 0 0 1 5 2 1 0 0 22 0 00--00 0 0 19 2 3 1 0 12 7 0 0 14 11 3 1 0 1 6 0 0 12 23 3 1 0 0 2 12 13 14 15 16 17 18 19 20 100. -0040--100312-0-9 26 2 1 0 0 0 0 4 22 23 24 25 26 27 28 29 30 000--0000 000000-000 000-00-09 0000-0-000 0000-00000 000000-000 000000-000 0-000040 , 1.8 MEAN 

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.5

- -- INDICATES DATA IS UNAVAILABLE 2.
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	,,,,				0. 0.0	~										/: 250									
	STA	TION -	NE	NO	77028	G	OVERN	MENT/	EDWAR	0 ST	CON	STON				MONT	TH - 1	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	3 0 0 1 0 0 1 1 0 0 0	3000011000	1 0 0 0 0 1 1	0 0 0 0 1 1 0 1 0	0 0 0 0 1 1 0 1 0	0 0 0 0 1 1 0 0 0	0 0 0 1 0 2 1 0 1 0	0 0 0 0 0 2 1 0 1 0	0 0 0 0 0 0 0 1 0 1 0	0 0 0 0 1 1 0 1 0	000012010	0 20 1 0 1 1 0 0 1 1	0 37 1 0 1 1 1 0 2	0 16 2 0 1 2 7 1 3	00120129201	0 10 2 0 1 1 0 27 0	0000110251	000011011	2 1 1 1 0 1	0 0 2 0 2 1 0 1 0 1	0010216201	0 . 1 0 2 1 0 6 0 1	0 0 1 0 2 1 0 4 0 1	0 0 1 0 2 1 0 2 0 1	0 1 1 2 3 1 1
11 12 13 14 15 16 17 18 19	0 1 1 0 1 1	0	1 0 1 3 1 1	1 1 0 0 0 0 1 10 1 1	1 0 1 1 1 1 3 1 0	1 1 1 0 1 1 2 3 1	1 1 2 1 1 1 2 4 1	1 1 0 1 0 1 3 4 1	1 0 1 1 0 1 1 1 3 0	1 0 1 0 5 2 1	1 0 1 0 0 1 1 2 1 1	0 1 0 14 1 14 3	1 0 1 1 0 1 1 2 1 2 1	1 0 1 1 0 5 1 1 4 1	1 1 0 5 1 1 2 1	1 6 1 1 0 5 1 1 1 1	0 3 1 1 1 1	3 : 0 : 1	1 7 0 0 2 1	1 4 0 1 1 1 0 1 1	1100011011	1 0 0 0 1 2 1 1	100001111	0	1 2 1 0 3 1 4 2 1
21 22 23 24 25 26 27 28 29 30	60	1 1 0 1 0 0 2 1	1 1 0 0 0 0 2 0	1 1 1 0 0 0 0 1 0	1 1 0 0 2 0 2 1	1 1 1 0 0 1 0 2 1	1001	1 1 0 0 0 1 0 0 0 0	0 0 0 0 0 0	0	20000	0 1 2 0 0 0 1 0 0 0 0	0 1 2 0 0 0 0 0 0 0	0 - 200 20000	0 1 2 0 0 5 0 0 0 0	0 1 1 0 0 6 0 0 0 0	8050000	0,1700100000000000000000000000000000000	0 0 0 0 0 0 1 0	0 1 : 0 0 0 0 3 0	0 1 1 0 0 1 0 0 1	0 1 0 0 0 0 1 0	1 1 0 0 0 0 0 0 0 0 0 0	0000000	1 4 1 1 0 1 0 0 1 0 0 1 0 0 1 3
MEAN	3	1	1	1	1	1	1	1	1	1	1	2	3	2	4	2	2	1	1	,	3	.1		2	1.3

PERCENTAGE OF DATA VALID - 99.0 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.6

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	LUTANT	- s	ULPHU	R DIO	ALDE							1	INTTS	- n	01 PA	RTS/N	11110	N						
	STAT	1104 -	NE	NO 7	7028	G	OVERN	MENT/	EDWAR	D ST	CON	STON				MON	TH :	DEC	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
1 2 3 4 5 6 7 8 9	0011000104	1 0 0 0 0 0 0 4	2011000004	1 0 0 0 0 0 3	0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 0 0 0 0 0	1 1 0 0 0 0 0 0	1 0 0 0 0 0 0	0 1 1 1 0 1 0 0 0	0 2 1 1 0 1 0 0 0	080000-000	0 0 1 0 13 0	1 1 3 0 0 1 20	2 0 1 4 0 0 1 1 33	0014001200	5 0 0 1	1 1 7 0 0 1 0	1 1 6 0 0 0 1 0 0	0 1 5 0 1 0 1	0 1 4 0 0 1 0 5 1	3001	0 1 1	0 1 1 0 0 1 0 6 1	0 1 1 0 0 0 1 0 5 1	0 1 2 0 0 1 0 4 1
11 12 13 14 15 16 17 18 19	1 1 0 4 0 1 2 2 1 2	0102013611	0 1 1 0 0 1 3 1 1 1	1 1 0 0 1 2 1 1 1	1 2 1 0 1 1 2 1 1 1	300011	1 3 0 0 2 1 2 0 1 1	1 4 0 0 2 1 2 1 1 1	3 0 0 3 1 2 1 1 1	1 1 0 0 2 1 2 1 1 1	1 0 2 1 2 1 1 2	0 0 3 1 1 3 1 1	0 0 0 3 1 1 1 0 1	1000021111	0 0 : 0 2 1 1 1 1 7	0000	102011111111111111111111111111111111111	1 0 0 0 1 1 1 2 1 1	1 0 0 1 2 1 3 1	1 3 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 C 1 0 1	0000	0 1 1 1 2	1200121	1 1 1 2 2 1 1 2
21 22 23 24 25 26 27 28 29	1 0 0 0 0 0 0 8	1 1 0 0 0 0 1 0 4	0000	1 0 0 0 0 1 0 4	1 2 1 0 0 0 0 1 0 2	1 1 0 0 0 0 2 0 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 1 2 0	1 0 1 0 1 0 1 0	1 1 0 0 0 0 1 1 4 0	1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2010021082	2010001002	3 0 1 0 0 0 0 0 1 8 4	30100001122	3010000160	3 1 2 0 0 0 0 0 1 2 0	300000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0000	2 1 1 0 0 0 0 1 1 1	200000000011300	000000000000000000000000000000000000000	1 0 0 0 0 0 1 4 1
31	0	•	0	1	٥	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1.0
MEAN	1	1	1	1	1	1	1	1	,	,		4	-	3	3		,					,			

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 1.6

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 FARTS/MILLION

STATION - NE NO	77028 GOVERNME	NT/EDWARD ST CONISTON		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.2	6	43
FEB	29	1.8	11	85
MAR	29	1.3	10	43
APR	30	2.1	9	54
MAY	28	2.2	7	38
JUN	30	1.4	9	49
JUL	30	1.2	5	28
AUG	30	0.9	3	27
SEP	30	1.0	4	32
oct	31	1.8	10	107
NOV	30	1.3	6	60
DEC	31	1.0	4	33
YEAR	359	1.4	11	107

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

UNITS - 0.01 PARTS/MILLION

,	POLLUTANT - SUL	PHUR	DIOX	IDE											UN	ITS	- 0	0.01	PAR	PTS/	MILL	ION			
	STATION - NE	NO 7	7028		GOV	ERN	MENT	/E0	WAR	0 5	τ (	1100	STO	N											
	MONTH OD	TO 0	5 06	to	10	11	TO	15	16	TO	20	21	TO	25	26	TO	39	40	10	49	50	&OV E	R	TOTAL	
	MAL	70	H		21			5			2			3			2			2			0	736	
	FEB	65	11		8			3			5			5			7			2			1	682	
	MAR	66	10		29			2			3			2			2			2			0	700	
	APR	65	3		24			11			10			7			7			0			1	713	
	MAY	63	16		26			13			12			6			7			0			0	700	

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

MAL	701	21	5	2	3	2	2	0	736	
FEB	651	8	3	5	5	7	2	1	682	
MAR	660	29	2	3	2	2	2	0	700	
APR	653	24	11	10	7	7	0	1	713	
MAY	636	26	13	12	6	7	0	0	700	
JUN	679	18	6	3	. 0	4	2	0	712	
JUL	696	16	8	4	٥	1	0	0	725	
AUG	698	9	6	1	2	1	0	0	717	
SEP	690	15	6	2	1		ũ	U	7:5	
OCT	678	19	16	6	8	3	1	2	733	
NOV	685	11	6	5	1	3	1	1	713	
DEC	705	13	4	2	0	1	0	0	725	
YEAR	8132	209	86	55	35	39	10	5	8571	

FREQUENCY	PERCENT	ION BY	PERCENTILES		FREQUENCY		TRATIONS					ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	97.6	0	0.0	0.0	0.0	0.7	2,3	5.2	12.3	20.5	107	1.4

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	\$1	ATION		E NO	77052	2	LOCKE	RBY S	SUBBUR	Y AIF	SHED					NO.	• HTP	JAN	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18.	19	20	21	22	23	24	MEAN	
1	0	0	0	11	2	1	1	0	0	0	0	0	0	0	3	0	٥	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2		3	5	2	3	2	1	0	0	1	
5	ō	o	ō	o	0	0	ō	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ă	ŏ	ō	ŏ	ō	ō	ō	ō	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ž	ŏ	ō	ŏ	ō	ō	o	ō	ō	ŏ	0	o	o	0	0	0	0	0	C	0	0	0	C	1	0	0	
á	ň	ŏ	ŏ	õ	ō	ŏ	ŏ	õ		ō	o	0	o	ō												
												ŏ	ŏ	ŏ	٥	0	0	0	0		1	1	0	0		
10	0	0	0	0	0	0	0	0	0	0	0	٥	ŏ	ŏ	ő	ō	ō	o	o	o	0	0	0	0	0	
10			U		•			•		•		•	_		•					•	•	_				
***			_			0	0	0		0	0	٥	0	٥	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	5	1	ŏ	0	ő	č	č	č	ž	2	ŏ	0	5							ō	
	U	·	U	•	U	- 3	3.		•					INVA				-								
13			ar word									W-41676	0	UNVA		0	0	0	0	0	0	0	0	0		
14		100000000000000000000000000000000000000					1000									0	ő	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ő	0	
15	0	0	0	0	0	0	0				0		200			ő	ŏ	ő	o		ő	ŏ	ŏ	õ	ŏ	
16	0	0	0	0	0	0	0	٥	0	٥	0	٥	0	0	0	0	ő	0	0		ő	ő	ŏ	õ		
17	***	•	200	100	-						••••	••••	0	0	0	0	o	0			0	ŏ	ŏ	ŏ	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_			0	0			1	0	Ÿ	
19	0	0	1	1	4	2	2	2	1	1	2	2	- 1	2	2	2	0	1	1	0	0	2	ò	3		
20	0	0	0	0	0	0	0	0	0	2	4	4	1	2	,	- 1	0	0	0	0	٥	0	U	3	- 1	
21	1	0	٥	0	0	0	0	0	0	Ť	1	3	2	0	0	3	• • • •	0	0		0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	000	0	0	0	0	0	0	0 3 0	0	0	0	0	0	
23	.0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	O	1	1	3	3	2	1	2	1	
24 25 26 27	0	0	1	3	2	2	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0		
25	0	0	0	0	0	0	0	0	0	0	0	Q		1	0	0	0	0	0		0	0	1	1	0	
26	0	1	1	0	0	5	0	2	0	3	1	4	4	2	0	0	0	0	0	0	0	0	0	0	1	
27	ō	0	0	0	0	0	0	0	0	0	1	1	3	2	1	0	0	1	0	1	2	4	4	3	1	
28	3	2	5	ō	ō	ō	ō	ō	ō	0	20	20	28	1		1	5	32	32	40	19	5	2	1	9	
29	ŏ	ō	ō	ō	ō	ō	o	ō	. 0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	
28 29 30	ŏ	ō	ŏ	ō	ō	0	o	ō	Ö	1	0	٥	0	0	0	0	0	0	0	0	0	٥	0	0	0	
	-			~					_						9	_	2	-	<u></u>	_			0	0	0	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	o	U	
MEAN	0	0	0	0	0	7	0	0	٥	0	1.	1	2	1	0	0	0	1	1	2	1	1	0	0	0.6	

PERCENTAGE OF DATA VALID - 88.3

PERCENTAGE OF DATA INVALID - 10.5

PERCENTAGE OF DATA UNAVAILABLE - 1.2

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POL	LUTAN	T - 5	SULPHI	UR DIO	XIDE							1	UNITS	- 0	01 PA	RTS/M	LLIO	N						
	STA	TION	. NE	NO '	77052	i	OCKER	BY S	UDBUR	N AIR	RSHED					MON	TH - )	FEB	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0000000000	1 0 0 0 0 1 2 0 0 0	0 0 0 0 1 2 0 0 0	0 0 0 0 0 1 2 0 0 0	0000000000	0000034000	0000033000	0 0 0 0 3 2 0 0 0		00000	000000	000001000	0000011000	0000011000	00000000	00000000	0000010000	0000000000	000000000	000000000	000000000	00000000	000000000	00000000	0 0 0 2 1 0 0 0
11 12 13 14 15 16 17 18 19 20	0000130011	0000120011	0 0 0 1 1 0 0 1 1	0 0 0 1 1 0 0 1	0 0 0 2 1 1 0 0 1	0002110001	000200001	000000001	000000011	0000	0 2 0 0 1 0 0 0	000000	000000011	0 2 0 0 0 0 0 1 1	0 2 0 0 0 1	0 1 0 0 0 1 1 1 1	0 0 0 0 1 0 0 1 1	0 0 0 1 0 0 1 1	0 0 0 0 0 0 1	000000	0 0 0 1 2 0 0 1	0 0 0 1 2 0 1 1 1 1 1	0 0 0 1 2 0 4 1 1 1	0001001	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	1 0 1 0 0 0 0 0 0	001001000	002001000	0 0 1 0 0 0	0 0 1 1 0 0 0 0 0	000101000	001101000	0 1 1 0 1 2 0 0	1 1 0 0		1000000	0 14 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 0 3 0 0	300000000000000000000000000000000000000	11 2 0 1 0 0 0	520100000	510000000	10210000	0 0 0 0 0 0	1 0 1 2 0 0 0 0 0	10020000	1 3 0 0 0 0 0 0 0 0	0 1 1 0 1 0 0 0 0	0 1 0 0 0 0	1 2 1 1 0 0 0 0 0
MEAN				0	0	0	0	0	0	0	0	1	1	1	1	ï	0	٥	0	0	0	1	1	0	0.4

PERCENTAGE OF DATA VALID - 97.3

PERCENTAGE OF DATA INVALID - 2.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	POL	LUTAN	T - S	ULPHU	R DIO	LIDE								014113	· · ·										
	STA	TION	- NE	NO 7	7052	Ĺ	OCKER	8Y S	UDBURY	AIR	SHED					MON	тн - 1	VAR	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ⊯	
1 2 3 4 5 6 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000	00000000	000000000	000010002	000000011	0 0 0 0 1 0 0 1 1 0	0000100110	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 1 1 0	0 0 1 1 0 1 1 5 0	0 0 1 1 1 0 1 2 7 0	0 0 1 0 1 4 1 0	1 0 1 9 0 0	1 0 0 3 0	1 1 1 0 1 1 0 0	0 1 1 1 0 0 1 0 1	1 1 4 0 0 1 0 1	0 1 1 3 0 0 1	0 1 1 1 0 0 5 0 4	0 1 1 0 0 1 1 0 0 1 1	0111000800	0 1 1 0 0 0 3 0 0	0 1 1 0 0 0 2 0 0	0 0 1 1 0 0 3 1 1
10 11 12 13 14 15 16 17 18 19 20	0 0000000000	0 1 0 0 0 0 0 0 0 0	0 1130000000	0 200000000	0 1 1 0 0 0 0 0 0 0 0 0 0	6001000000	1001000000	1000000000	0	100100000	001000000	0001000000	000000000000000000000000000000000000000	1 5 C 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50000	0 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	0200000000	0130000-00	0102000100	0 1 3 2 0 0 0 0 0 0 0	0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0	0 1 2 0 0 0 0 0 0 0	11000000
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	000000	000000000	00000000	0010000000	0010000001	0010000001	0010000012	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0011000050	0 0 1 1 0 0 0 1 1	000-0-0000	0001010200	000110001100011000110001100011000110001100011000110000	00111002		0001030	0001020010	0001010000	0 0 0 1 0 0 1 8 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000023	000000000000000000000000000000000000000	0000010031
31 MEAN	0	0	0	0	0	0	0	0	1	0	,	1	0	î	1	0	0	0	1	1	1	1	0	0	0.5

PERCENTAGE OF DATA VALID - 96.5 PERCENTAGE OF DATA INVALID - 3.5 PERCENTAGE OF DATA UNAVAILABLE - 0.0
NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	. 5	ULPH	UR DIO	SOL							1	UNITS	• 0.0	DI PAR	RTS/MI	LLION	•						
	STA	TION -	NE	NO '	77052	LC	CKERB	Y \$1	JOSUR'	Y AIR	SHED					MONT	TH - A	PR	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	00000000	00000-000	000005000	000000000	000000000	00000000	000-00000	000000000	000000000		000010000	600000	104010000	6 0 1 0 0 0 0	1100000000	13 0 1 0 1 0 0 1 0	602000010	001000000	00000010	000000-0	00000000	00000000	0 0 3 7 0 0 0	0 0 0 1 9 0 0 0 0	2 0 1 0 1 0 0 0 0
9 10 11 12 13 14 15 16 17 18	0 0 0 0 0 0 0 0 0	00 000000000	00 00-0-00000	00 0000000000	000010000	0000000000	00 000000000	0 000000		0 00000				0 0000000000	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 000000000	0 0000000000	0 0000000000	0 000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 000000000	0 0000000000	0 000000000	0 0000000100
21 22 23 24 25 26 27 28 29 30	0000-00400	000000000000000000000000000000000000000	0002000300	0000000400	000000400	000000-00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000100:2	0 4 0 0 4 0	0 6 0 1 0 0 4 0	0 0 5 0 1 0 0 3 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0002000400	14 0 0 3 2 0 4 0 3	0 0 4 0 2 0 1 0 2	0 0 0 0 0 0 0 0	00014	0 0 32 0 0 1	13 0 0 1 0 0 2	10 0 0 2 0 0 1	0004004200	0002004001	0 0 0 1 0 0 4 0 0 .	1 0 0 5 0 1 1 2 1 :
MEAN	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1	1	1	1	1	1	0	1	1	0.5

PERCENTAGE OF DATA VALID - 98.3 PERCENTAGE OF DATA INVALID - 1.7

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. . INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

PERCENTAGE OF DATA UNAVAILABLE - 0.0

UNITS - O.C. PARTS/VILLION POLLUTANT - SULPHUR DIOXIDE MONTH . KAY STATION - NE NO 77052 LOCKERBY SUDBURY AIRSHED 24 VEAN 1.1 HOUR 0 0 1 22000. SOCO. 2 3 4 5 6 7 8 9 10 0-0000 033000. 0 1 ò 0004-0 • 1 2 0 1 1 0 1 0 0-0 o 00. : 9 3 29 0 0 0 0 0200:320000 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 00000-000 00206-0001 00000-000 00000-0001 00000-0001 00000-0001 23 18 0 0 0 0-000000 .... DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
GATA UNAVAILABLE
GATA UNAVAILABLE - DATA UNAVAILABLE -1.2 - 1 MEAN 

PERCENTAGE OF DATA VALID - 61.7

PERCENTAGE OF DATA INVALID - 3.8

PERCENTAGE OF DATA UNAVAILABLE - 34.5

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. ---- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

STA

UNITS - 0.01 PARTS/MILLICN

ATION - NE	NO 77052 LOCKERBY	SUDBURY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	26	0.6	9	40
FEB	29	0.4	2	15
MAR	31	0.5	3	18
APR	30	0.5	5	32
MAY	18	1.2	5	29
YEAR	134	0.6	9	40

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77052 LOCKERBY SUDBURY AIRSHED	
MONTH DO TO 05 DE TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 MOVER TOT	AL
JAN 650 0 0 3 0 3 1 0	657
FEB 673 1 3 0 0 0 0	677
MAR 707 6 4 1 C 0 0 C	718
APR 689 12 6 0 0 1 0 0	708
MAY 433 16 5 3 1 1 0 0	459
	2:9

FREQUENCY	DISTRIBUT PERCENT OF DATA	ION BY	PERCENTILES		FREQUENCY		TRATIONS					ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	88.2	0	0.0	0.0	0.0	0.0	1.0	2.4	5.2	10.0	40	0.6

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION																								
	STAT	10N -	NE	NO	77065		ALCON	BR I DGE	RD	GARS	ON . SUC	BURY	DISTR	ICT		MONT	н - J	AN	80						
HOUR	1	2	3	4	5	6	7	•	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	0 0 0 0 1 2 1 0 0 1	0000151011	0 0 0 0 0 9 1 0 1 2	0 0 1 1 8 1 0 1	0 0 1 1 6 1 0 2	1 0 0 0 1 5 2 0 1 1	1000152022	3 0 0 0 1 4 2 0 3 1	4000142022	2000122032	1 2 2 0 1 1	0 0 0 2 1 2 1 1 1 1 1 1	0 0 3 4 1 0 2 5 1	0006410341	0 0 0 12 3 1 0 9 3 0	0 0 13 5 1 0 7 1 1	0 0 7 8 1 2 9 1 1	0 0 3 3 1 4 9 1 1	0 0 0 4 4 1 2 7 1 2	0 0 3 7 1 1 3	0 0 3 8 1 0 1	0 0 0 2 4 1 0 1 1 2	0002210112	0 0 0 1 2 1 0 1 1 1 1	3 3 1 2 2 1
11 12 13 14 15 16 17 18 19	1021000000	1 1 2 1 0 0 0 0 0 0	1 1 0 0 0 0 0 0	1 1 0 0 0 0 0	1 1 0 0 0 0 0	2-0-000000	1 1 0 2 0 0 0 0 0	1 1 0 3 0 0 0 0 0	1 1 0 4 0 0 0 0 0	0100000000	0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0	0 - 0 0 0 0 0 0 0	010020000	0 1 0 0 2 0 0 0 0	0 1 1 0 2 0 0 0 0	311010000	14 1 1 0 2 0 0 0 0 0	13	17	8 1 1 0 0 0 0 0 0	000000	0 0 0 0 0	1 0 0 0 0 0 0 0 0	3
21 22 23 24 25 26 27 28 29	0000000400	0000000000	0000000000	000000000	000000000	000000100	0000000000	000000000	000000000	000000000		0000000	0 0 0 0 0 0 0	1000009000	0 0 0 2 0 8 0 0 0	3 0 0 4 0 6 0 0	3 1 0 1 1 0 3 3 0 0	0 0 1 0 4 3 0 0	2 0 0 1 0 5 8 0	0 0 0 1 0 5 1 0 0	1000003100	0200004000	0300004000	0100004000	0000
31 MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0 2	0 2	0	1	1	1	1	0.9

PERCENTAGE OF DATA VALID - 93.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

<sup>2. ..</sup> INDICATES DATA IS UNAVAILABLE

<sup>3. \*\*\*\*\*\*</sup> INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT . SULPHUR DIOXIDE FALCONBRIDGE RD GARSON, SUDBURY DISTRICT VONTH . FEB 80 STATION - NE NO 77065 24 MEAN : 6 HOUR 00000-000000-2 3 4 5 6 7 8 9 10 000000000-000000-4 12 13 14 15 16 17 18 19 20 ö 100m040C. ŏ 

PERCENTAGE OF DATA VALID - 95.3

MEAN

PERCENTAGE OF DATA INVALID - 4.7

-00000000 

PERCENTAGE OF DATA UNAVAILABLE - 0.0

Ü

0.6

o

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

-- INDICATES DATA IS UNAVAILABLE 2.

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE FALCONBRIDGE RD GARSON. SUDBURY DISTRICT MONTH . MAR STATION - NE NO 77065 24 MEAN HOUR 0 18 1 2 0 0 7 8 3 0 000000-000 1 2 3 4 5 6 7 8 9 10 0000-30-0 .... 31 2 12 13 14 15 16 17 18 19 20 .000000 .. 000: 16 1 0 0 0 17 0 0 22 23 24 25 26 27 28 29 30 0000-00000 28 2000 2200 000-000-• • • • .... ó ı 6 \*\*\*\* o c 0.7 O MEAN 

PERCENTAGE OF DATA VALID - 95.7

PERCENTAGE OF DATA INVALID . 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE 2.
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O.O. PARTS/WILLION

	PO	LLUIA	NI -	SULP	HUN UI	OXIDE																				
	ST	ATION	- N	E NO	77065	5	FALCO	NBR I DGE	RO	GARS	ON.SI	DBURY	D157	RICT		N:CN	тн -	APR	80				-			
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23		MEAN	
	0	0	0	0		0	0	0	0	6	7	1	2	8	12	40	21	5	0	0	0	0	0	0	4	
2	ő	ŏ	ŏ	ō		0	0	0	0		3	2	0	0	0	ລ	C	٥	0	0	0	0	0	2	3	
•	ŏ	ŏ	ŏ	ŏ		ŏ	ō	0	0		0	0	13	22	15	11	2	2	1	0	0	2			3	
*	ŏ	3				1	o	0	0		0	0	0 0 0 0	0	0	0	1	1	0	0000	00000	2000	0	0	1	
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-	0	×	×	ŏ	ŏ	ő	ŏ	ŏ	o		0	0	0	0	0	0	0	0	0		0	0	0	0	9	
<u> </u>	ŏ	2000	80000	000	0000	0	ō	ŏ	n		0	1		22 0 0 0 0	000000	0	0	0	1	1		0	t	9	- 1	
	16	ŏ	ž	ŏ	ŏ	0	0	ŏ	ō		0	0	0	0	0	0	1.7	C	0	3	4	1	1	2	1	
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10	U		U			•		-	-		-	-	-											_		
	0				1	2	0	0	0		0	0	3	1	U	3	2	1	3	1	0	0	0	0		
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13	0	×	ŏ	18	15				ŏ		ō	2	6	0	0	0	0	0	0	0	0	0	0	0	3	
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17	0	ő	0	Ö		č	ŏ	ŏ	o		ŏ	ō	0	0	4	6	17	27	17	11	3	0	0	0	4	
18	0	ŏ	ŏ			ő	ŏ		ŏ		ō	ō	ō	o	٥	0	0	0	0	0	0	0	1:	0	0	
19	0	ŏ	ŏ			ŏ					ō	0												****	*****	
20	0	U	U						٠		-													92	0.22	
21								**** **					0	0	0	0	0	0	0	0	1	0	0		*****	
22	0	0	0		0	0	0	0	0		0	٥	0	0	0	0	1	- 1	0	0 6 0	0	0	0		0	
23	ő	ŏ	o						ō		0	0	3	4		2	0	G	0	0	5	0	0		1	
23	ŏ	ŏ				o			1		4	3	4	2	2	13	32 0	19	2	6	5	6	4	2 0 0	2	
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20			,			ň	ŏ	ŏ	ò		0	0	0	0	5 2 0 0	0	0	0	0	1	1	1	0	0	0	
27	0	0	0		0 0 0	0	2		7		ī	ō	0	4 2 0 0 0 0 26		0	0	0	0	٥	0	1	23	4		
29	ő	ŏ	4	20	10	3	ō		o		0		2	26	33	9	- 1	0	0	0	C	0	0			
30	ŏ	ŏ		20		ī			8		1	0	0	4	0	0	٥	0	0	0	0	1	2	0	1	
		٥							1	6	0	1	,	2	2	3	3	2	1	1	٥	0	1	1	1.1	
MEAN										_																

PERCENTAGE OF DATA VALID - 92.6 PERCENTAGE OF DATA INVALID - 7.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLL	UTANT	- 5	ULPH	UR DIO	XIDE							1	UNITS	- 0.0	01 PAF	RTS/MI	LLIO	N						
	STAT	ION -	NE	NO	77065		FALCON	BRIDGE	RŌ	GARS	)N . SU	OBURY	DIST	RICT		MON1	TH - N	YAN	80						
HOUR	1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24 ME	AN
1 2 3 4 5 6 7 8	0 2 0 0 1 0 0 1	0 1 0 0 0 1 0 0 0	010041000	010000000	0	0 0 0 28 1 17 0	0 0 0 11 1 6	15 0 0 0 1 0 0 0 0	10091100		87 0 8 5 0 0	24 0 0 8 2 0 0 0 0	39 1 0 11 1 1 0	9 1 0 4 1 1 0 0 0 0	2 2 1 1 5 4 0	9 2 1 1 0 1 0 0 0 0	1 1 2 0 0 0	621101000	2 1 1 0 2 0 0 0 .	1 2 1 1 0 2 0 0 0	1 1 5 0 1 0 0 0	1 0 1 0 0 0 0 1	2100010001	4 0 0 0 0 1	9 1 0 2 3 1 1 0 0 0
10 11 12 13 14 15 16 17 18 19 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0000000000	0 000000000	0 0100000001	0 0 0 0 0 0 0	0 0200000001	1 0 6 0 0 0 0 0 0 1	0 2 0 0 0 0 0 1 0 1	090000040		0 1 6 6 0 0 0 0 2 0 1	0 04 300 8000 2	0 0 5 2 0 0 18 0 0 0	0 0 4 0 0 0 0 1	0 01 020001	0 8 0 0 0 0 0	21 0001	0 0 0 0 1 2 0 0 0 1	1 0 5 6 0 0 1 1 0 0 0 1	0 3 5 0 1 1 0 1 0 1	1 0 1 2 1 0 7 0 1	0 1 0 1 0 2 0 2	23 0 0 0 0 0 2	000000000000000000000000000000000000000	0 3 2 2 0 4 0 1 0 1
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	000000000	0000000000	000000000000000000000000000000000000000	0 1 0 0 0 0 1 0	00-0000600	0 5 0 0 0 0 24 0	200000000000000000000000000000000000000			10 3 0 0 0 0 0 7	0000	16 8 3 0 0 0 0 0	31 3 5 0 0 0 0	5 5 0 0 0 0	16 0 0 0 0 0 0 1	5 7 24 0 0 0 0	5 3 9 1 0 0 0 0 1 1	3 4 2 2 0 0 0 3 1	2510000212	130000012	1 0 0 0 0 0 0 1 1	1 1 0 0 0 0 0 0 1 1	1 1 0 0 0 0 0 0 0 1 1	4430000501
31	1	1	1	1	1	1	1	1	- 8	••••	0	٥	0	5	1	Ü	U	0	0	٥	0	u -	·	ů	i 1.6
MEAN	0	0	٥	0	0	2	2	2	3	••••	4	3	4	2	2	2	2	1	2	1		-1	1	U	1.0

PERCENTAGE OF DATA VALID - 95.0

PERCENTAGE OF DATA INVALID - 5.0

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	,,,,																								
	STA	TION -	NE	NO	77065		FALCO	NBR I DGE	RD	GARS	ON . SU	BURY	DIST	RICT		MONT	н - х	JUN	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2	0	0	0	0	0	000	0	0	0 0 0		••••	0	21 0	5 0	0	0	6	0 5 0	2	5 0	0 1 0	0	0	1	1 0
4 5	0	0	0 0 0	0	0	0000	0	0	000	0 0 0	0	3	3	0	0	0	0	3	0	0	0	000	000	0	0
7 8	0	0	0000	4 0 0	0 0	000	000	0 0 0	0000	0	4	4 0	0	0	0 0 0	0	0	3 0	0	0	0	0	0000	000	0 0
10	ŏ	ō	ō	0	0	0	0	••••	0	0	o c	0	0	•	15				2	0	0	0	0	0	7
12 13 14		0	000	0 0	0	000	0	1 0 0	0	0	0	0	0	0	0	0	0 2 0 0	100	0 5 0	0000	0	8	44	0 7 0	3
15 16 17		0	000	3 0 2	0	0	0	0	0	0	0 2	0 - 0	0000	0 0 0	0 1 0	2	0	0000	000	0000	0	0	0	5	0
18 19 20	0	0	9	4	0 6 0	5	0 4 0	0	000		2	3	8	19	6	27	8	0	0	0	0	0	0	0	0
21 22 23	0	0 0 0	0 0 0	0	0	0000	0 0 0		0 3 0	0 0 0	0	0 1 0	0 0 0	2 0 4 0	7 0 5 4	12 0 4 10	10 0 6 16	14	14 0 9	0 3	0 1 0	0 1 0 4	1 0 1 3 2	0	3 0 2 2
24 25 26 27 28	0 1 0	0 1 0 0	3 2 0 6	1 0 16	1 0 0 6	0 0 1	1 0 0 1	3	5 3 0 0	0	0	10 3 0	2 0 0	0 0	0 0 2	0000	70000	0 0 0 5	0 0	00000	5 0	0 3 0 0	0 1 0 0	3	1 2
29 30	0	0	0	0	0	0			2		4	3	1	21	1	3	1 2	2	1	0	0	1	1	1	1.0

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

		POLLUTANT - SULPHUR DIOXIDE UNITS -														- 0.0	I PAP	TS/MI	LLION							
		STA	TION -	NE	NO	77065		FALCON	BRIDGE	RD	GARS	ON . 5U	DBURY	DISTR	ICT		MONT	H - U	UL	80						
	HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 N	EAN
8	1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0	000000000	0 0 1 0 0 0 1 0 0	000000000000000000000000000000000000000	600000000000000000000000000000000000000	4 0 0 0 0 0 0 0 0 1	000000000000000000000000000000000000000	2000004002	00000	00000	0 0 22 7 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 23	18 00 00 00 19	000000009	0019000004	314000008	004000000	300000000	3 5 4 0 0 0 0 0 0 0	0430000000	0230000000	0 1 2 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0	7 200005
	11 12 13 14 15 16 17 18 19	000120000	0001700000	0000200000	000010000	0000000000	0001000002	0	000900000	000000000		0 0 0 3 0 0	0 0 0 1 2 0 0 6 2 0	0 0 1 16 0 10 6 0	0 0 0 2 1 0 0 3 7 2	0 0 2 0 1 0 0 2 7 10	0020100023	0050300054	0 8 0 3 0 0 15 7	28 0 1 0 0 0 2 10	00000000	0043000000	0 1 3 0 0 0 0 0	0012000000	000000000000000000000000000000000000000	3 2 1 0 0 1 2 2
	21 22 23 24 25 26 27 28 29	0 0 0 0 0 0	000000000	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000010	00010001	0000000000	031000	1	11 0 0 3 0 2 24 0	8 0 28 0 18 28 0	0 0 29 0 59 4 0	0 0 18 0 32 1 0	0 0 15 1 26 0 0	0 0 7 1 29 0 0	500005	0 0 0 1 0 0 0 2	34	00000000	000000000	000000000	0000000004	0000000000	1 0 0 7 0 8 2 0 1 1
1	31 MEAN	0	0	0	0	0	0		0	0	0	0 4	4	o 5	o 3	3	2	c 3	2	с 3	1	0	0	0	0	1.5

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. " --- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS MILLION POLLUTANT - SULPHUR DIOXIDE SONTH - AUG BO FALCONBRIDGE RD GARSON. SUDBURY DISTRICT STATION - NE NO 77065 24 MEAN 16 17 18 19 1.1 HOUR 510104:101 0 .... 0 19 00 6 0 4 2 0 0 16 0-00000000 - 5000-0000 ō ú 12 13 14 15 16 17 18 19 20 0 2 0-00000000 0000-000 o 0 0 1 2 1 ú 000-00000 0000-.. 0000-0000-90000 22 23 24 25 26 27 28 29 30 0000-0000 0.00 O 1.0 MEAN 

PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. " INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCURCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - SEP FALCONBRIDGE RD GARSON SUDBURY DISTRICT STATION - NE NO 77065 24 MEAN 9 10 1.1 0 .... 000-6 14 0 29 0 0 0 0 2 5 1 21 0 0 0 0 0 25 0 0000-00000 0 0 29 0 ...0 0 .... 00 30401011 00.00000000 00.0000000 80000NN0000 12 13 14 15 16 17 18 19 20 00-00000 .... 00. 22 23 24 25 26 27 28 29 30 .... ŏ 0 2 0.9 a • MEAN 

PERCENTAGE OF DATA VALID - 95.7

PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

	STA	TION	- NE	NO 7	7065	,	ALCON	BRIDO	E RO	GARS	ON. SU	DBLRY	DIST	ICT		MON	TH - (	ост	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	100000000	300000000	2 1 0 1 0 0 0 0 0	000200000	0001000000	000000000	0000000000	0000000000	0000000		000000000000000000000000000000000000000	0,000004000	0000000000	00000000000	5000005000	0000000000	7000	10000000000	0 0 0 0 0 0 0	00006.0000	0000710000	0010500000	0 2 0 0 0 0 0 0	0 1 0 0 0 0 0	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	000000000000000000000000000000000000000	0 0 0 0 7 0 1 0 0	0000040600	0000040200	0000030400	0000020200	0 0 0 0 0 0 1 0 0	000000000000	00001020		600000000000000000000000000000000000000	30000000	60000	0005930100	15 2 0 3 5 0	0 0 0 6 1 0 2 14 0	000001210273	0007000430	0 0 0 0 0 0 1 2 0	0000000000	000000000	00000000000	000000000	0 0 0 0 0 0 0 0 0	6 2 0 2 1 0
21 22 23 24 25 26 27 28 29	000000000	00000000	000000000	000000001	000000001	0000000000	0000000000	0000000000	01000000		0 0 0 0 0 0 0 0 0 0	000000000	0000000000	0000000000	0000000000	0000000000	000000000	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	00000000	0000000051	00000000	00000000	0 0 0 0 0 1 0
31 MEAN	0	0	0	1	3	0	0	0	0	••••	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6

PERCENTAGE OF DATA VALID - 95.7 PERCENTAGE OF DATA INVALID - 4.3

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "." INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE							L	INITS	- 0.	01 PA	RTS/MI	LLIO	4						
	STA	110N -	NE	NO	77065		FALCONE	RIDGE	RO	GARS	ON , SU	DBURY	DIST	RICT		NON'	TH - N	OV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	000000000	000000000000000000000000000000000000000	0000050000	0000000000	0000-0000	000000000	000000000	0000000000	ŏ	0 0 0 0	000000000	0 0 0 0 0 0	0 0 0 0 0 0 0	03000000	0000000400	0 0 0 0 0 22 0	8 00000	0000000000	000000000	0000000000	0000000000	000000000000000000000000000000000000000	0000000000	0 0 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11 12 13 14 15 16 17 18 19 20	000000000	0000000000	0000100000	000000000000000000000000000000000000000	0000600000	000000000	0000000004	000000014	0000000009	00000	0000000000	000000000000000000000000000000000000000	000000000	0000000000	0000000000	0000000000000	0 0 4 0 0 2 0	0700030050	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0000000000	0100000000	0500000000	040000000000000000000000000000000000000	0 1 2 0 0 2 0 0 2 1
21 22 23 24 25 26 27 28 29	000000000	000000000	25 0 0 0 0 0 1 0	020000010	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000000000	000000000	0 0 0 0 0 0 0 0 0	00000000		000000000	000000000000000000000000000000000000000	00000005	001000000	0010000000	00000-0000	000000000000000000000000000000000000000	0000040000	0 0 0 0 1 16 0 0 0	00000-5000	0 0 0 0 1 0 0 1 0	0 0 0 0 0 1 3 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 1 0 0 1 1
MEAN	0	٥	•	0	0	0	0	٥	0	o	U	U	o		30	ε			1	1	U	٥	ō	ō	5.5

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 2.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

	POLLUTANT - SULPHUR DIOXIDE													UNITS	- 0.0	01 PAF	15/WI	LLION	•						
	STAT	ION -	NE	NO	77065		FALCONBR	RIDGE	RD	GARS	ON.SU	DBURY	DIST	RICT		MONT	тн - с	EC	80						
HOUR	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 ME	
1 2 3 4 5 6 7 8	1000500005	2000200007	100010006	0 0 0 0 0 0 0 0 4	0000700002	0000000000	000000000000000000000000000000000000000	0000900000	1003000		010010000		0003001000	50010	1006001010	3 0 0 24 0 0	0000000000	000400-000	100400-000	0004001030	000400-050	0002001050	0000000000	0004001060	0 0 3 2 0 1 0 1 1
11 12 13 14 15 16 17 18 19	0 3 0 1 0 0 1 2 0 1	0300001001	030000-001	0 3 0 0 0 1 0 0 1	0 3 0 0 0 1 0 0 1	0300001001	0 4 0 0 7 7 1 0 0 1 0 0 1	0 0 0 1 0 0 1	30060100		0000501000	0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	000000000000000000000000000000000000000	0 0 1 1 0 0 1 1	0000010010	000000000000000000000000000000000000000	2300010011	220000011	300000	3 1 0 0 0 2 0 0 1 1	4 0 0 0 0 0 1 1 1	200000000
21 22 23 24 25 26 27 28 29	1 1 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	1100000000	120000000	110000000000000000000000000000000000000	1200000000	0	1000000000	00000100		0 0 0 0 0 2 0 0	0 0 0 5	0 2 0 2 0 0 0 0	000000	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2010002200	3010000300	2010000200	2010000201	2010000100	2 0 1 0 0 0 0 1 0 0	1 0 0 0 0 1 0 0	20100001000	1 1 0 0 0 0 1 0 0
31 MEAN	4	8	10	15	16 1	10	2	1	.07	••••	10	9	5	8	0	1	1	0	0	1	1	1	1	•	0.8
				•																					

PERCENTAGE OF DATA VALID - 95.4 PERCENTAGE OF DATA INVALID - 4.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

TATION - NE N	0 77065 FALCONBRID	GE RD GARSON.SUDBURY DIS	TRICT	
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	0.9	4	21
FEB	27	0.6	4	17
MAR	30	0.7	4	31
APR	28	1.1	5	40
MAY	31	1.6	9	87
JUN	30	1.0	4	44
JUL	31	1.5	6	59
AUG	31	1.0	5	41
SEP	30	0.9	4	39
oct	31	0.6	6	19
NOV	30	0.5	2	25
DEC	31	0.8	5	24
YEAR	361	0.9	9	87

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLICN

			30.0000	5000000									
STATION -	NE	NO 7	7065	FA	LCONBRI	DGE	RO GARSON	. SUDBURY	DISTR	LCT			
MONTH	00	то о	5 06	TO 10	11 10	15	16 TO 20	21 TO 2	5 26	10 39	40 10 49	50 LOVER	TOTAL
JAN		71	4	20	C.	4	2		1	o	٥	0	741
FEB		63	6	24	k.	2	t		C	0	0	0	663
MAR		68	0	17		7	5		1	2	0	٥	712
APR		62	7	17	Ķ.	7	7		4	4	t	0	667
MAY		66	0	22	l	8	6		5	4	,	1	707
JUN		66	6	21		6	4		2	1	1	o	701
JUL		68	3	17		6	9		4	10	0	1	730
AUG		68	2	30	)	9	7		2	0	1	0	731
SEP		65	7	12	1	8	3		4	>	U	U	603
OCT		68	2	21		5	4		0	0	0	0	712
NOV		68	4	11		1	2		3	0	0	0	701
DEC		68	8	16	l,	4	1		1	0	0	0	710
YEAR		805	9	228	I.	67	51	4	17	26	4	2	8464

REQUENCT	PERCENT	IUN BY	PERCENTILES		FREQUENCY		TRATIONS					ARITH
	OF DATA VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	96.4	0	0.0	0.0	0.0	0.0	1.8	4.8	10.6	16.7	87	0.9

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STAT	TON	· NE	NO	77066	T	EMAGA	MI SU	DBURY	AIRS	HED					NONT	H - N	AY	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9												- DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA	2 UNAN 2 UNAN 2 UNAN 2 UNAN 2 UNAN 4 UNAN 4 UNAN	AILAS AILAS AILAS AILAS AILAS AILAS	LE - LE - LE - LE -										
11 12 13 14 15 16 17 18 19												- DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA - DATA	UNAN L UNAN L UNAN L UNAN L UNAN L UNAN L UNAN L UNAN	AILAS VAILAS VAILAS VAILAS VAILAS	LE - LE - LE - LE -										
21 22 23 24 25 26 27 28 29	.001000000	. 000000000	. 000000000	. 000000000	0000000000	. 000000000	. 000000000	. 000000000	.000000000	.00000000	. 000000000	00000000	100000000000000000000000000000000000000	3 0 0 0 0 0 0 1 0 0	200000000000000000000000000000000000000	3.000000000	3 . 0 1 0 0 0 0 0 0 0 0	3 . 3 . 0 0 0 0 0 0 0 0 0	5 . 0 0 0 0 0 0 0	120000000	6060000000	104000000	000000000	0010000000	00000000
31	0	0	0	0	0	0	0	٥	٥	0	О	0	0	0	2	1	0	0	0	0	0	0	٥	٥	٥
MEAN	0	0	0	0	0	0	o	٥	0	0	0	o	0	0	0	0	c	1	2	2	1	0	0	0	0.3

PERCENTAGE OF DATA VALID - 33.2 PERCENTAGE OF DATA INVALID - 0.1 PERCENTAGE OF DATA UNAVAILABLE - 66.7

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE TEMAGAMI SUDBURY AIRSHED MONTH - JUN STATION - NE NO 77066 23 24 MEAN 22 9 10 12 17 18 19 20 21 4 5 HOUR 0000000000 0000001000 011010101000 1 2 3 4 5 6 7 8 9 10 ..... 0000000000 0000000000 0000000000 000000-000 0000000000 0000000000 0000000000 0000000000 0000000000 00000000-0 0000000000 0000000000 00000000000 0000-00000 0000-00000 0000000000 :011012000 .... 0-40000000 0000000000 0000000000 0000000000 11 12 13 14 15 16 17 18 19 20 0 0 0110004003 0 0430001 0130000:00 000-000 004000-000 00-0000000 0 0 0101100000 0 1 0 1 101200000 30001002 0-000000 ...0 30--00 00000 0 0 1 000000000 .... 1030000000 4000000000 21 22 23 24 25 26 27 28 29 30 0000000000 0000000-00 0000100000 00000-00000 0000 0060100000 0-80-00000 0140510000 0000-00000 0000100000 00-0000000 0-30000000 0000-0000 1030000000 1000100000 0-0-000000 0101100000 0 0-0 0 0 0 0.3 ٥ 0 0 0 0 0 0 0 0 0 0 ٥

PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

## ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION  STATION - NE NO 77066 TEMAGAMI SUDBURY AIRSHED MONTH - JUL 80																								
	STA	TION .	NE	NO	77066	1	EMAGAR	I SU	DBUR	Y AIRS	HED					MONT	тн - J	UL	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	000000000	0010000000	0000000000	0000000000	0000000000	0000000000	000000000	00000000		0000000000	0000001001	000000000000000000000000000000000000000	0 0 1 0 0 0 2 0 0 7	004000000	0050000004	005000000	00300000000	0010000010	1000000000	-000000000	1002000000	1 1 0 0 0 0 0 0	030000000	020000000	0 0 0 0 0 0 0 1
11 12 13 14 15 16 17 18	0000110000	0000110000	0000-40000	0000050000	0000040000	0000040000	00000	00000000		0 0 0 0 1 1 0 0 0	0001112000	210001	0 0 0 3 4 1 0 0 0 2	000000000000000000000000000000000000000	0 0 1 2 0 0 1 2	000000000000000000000000000000000000000	000000100	00000000	0 0 0 0 0 0 1	000001	0 0 0 0 0 0 0 0 0	0030300000	00-020000	000000000	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29	0 0 0 0 1 3 0 0 0 0	0100110000	0 1 0 0 0 0 0	01000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000740000	0000-40000	00012000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000000000	0000000000	000000000000000000000000000000000000000	0004000020	0000000	000600000	000000000000000000000000000000000000000	000300000	0004000000	0005000000	0000000000	0000000000	000020000	0000	0 0 0 0 0 0 0 0 0
31 MEAN	0	0	0	0		0	0	0	0	0	0	5	1	,	0	0	0	0	0	0	0	0	0	0	0.4

PERCENTAGE OF DATA VALID - 95.6

PERCENTAGE OF DATA INVALID . 4.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- . .. INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STAT	ION	- NE	NO	77066	-	EMAGAN	4 [ S	UDBURY	AIRS	HED					₩CN1	H - 1	<b>L</b> G	60						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	33	23	24	MEAN
1 2 3 4 5	0 0 0 0 0 0	00000	00000	0 0 0 0 2	0 0 0	00000	00000	000000	00000	00000	0 3 0 0 0	0000	400000	300000	6 0 1 0	50020	400001	3000	0 0	0 0 0 0	0 0 0 0 2	0 0 0 0 0	0 - 0 0 0 0	00000	10000
7 8 9	0	0 2 0 0	0	0 2 0	0 3 0	0 0	0 1 0 0	0 2 0 0	!	0 0 4	0 0	0	0 1 0 0	0	0 0	0 2 0 3	0 1 0 7	000	0 0 7	0 1 0 3	0	0 0 1	0	0	0 1 0 2
11 12 13 14 15 16 17 18 19	000000000	000000000	000000000	0000000001	0 0 0 0 0 0 0 0	0000000000	000000000	ŏ	0 0 0 0 0 0	1000000000	0200000000	0-00000000	0000000000	0000000000	0000000000	090000000	000000000	000000000	0000000000	1000000000	. 000000000	000000100	000000100	000000100	0 0 0 0 0 0 0
21 22 23 24 25 26 27 28 29	00000	0000100000	0000000000	0000014000	0 0 0 1 2 2 0 0 0	0000120000	000000000000000000000000000000000000000	00000	20100	0000220100	000000000000000000000000000000000000000	0000220000	0100220000	0 1 0 7 2 1 0 0 0 0	0 0 0 8 4 1 0 0 0 0	0 0 0 0 0 0 0 0 0	000+-20000	000103000	0 0 0 0 0 0 0 0	0000000000	0 0 0 0 1 0 0 0 0	0000000000	00-0000000	0 0 0 0 0 0 0	000000000000000000000000000000000000000
31	1	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	.1	2	0	0	0	٥
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	٥	0.4

PERCENTAGE OF DATA VALID - 99.1 PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE
  - 2. "-" INDICATES DATA IS UNAVAILABLE
  - 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	801	POLLUTANT - SULPHUR DIOXIDE UNIT														11 PAG	75/41	11104							
	PUL	LUIANI	- 3	ULPH	OK 010	VIDE							,		0.0	CL FAS	/ 141	2210							
	STA	TION .	NE	NO	77066	7	EMAGA	MI SU	DBURY	AIRS	HEO					MONT	H - S	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000000000	000000000	0000000000	0100000000	0000000000	000000000		1000000000	1000.00000	-000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000000	400100000	000000000000000000000000000000000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	2001000000	000000000000000000000000000000000000000	100000000
11 12 13 14 15 16 17 18 19	00-000000	0 0 1 0 0 0 0 0 0 0 0 0	0000000000	0000100000	0000300000	0000100000	000000000	0000100000	00001	0001200001	0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 1	000001	0000100400	0000100100	0000100100	0000100000	0-00000000	0-00000000	0100000000	020000000	020000000	010100000	0:0-00000	0.0010000
21 22 23 24 25 26 27 28 29	0000000001	000000001	000000001	0000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	0000000000	00000-001	0 0 0 0 0 1	0 0 0 0 0 0	0 3 0 0 0 0 0 0 0	0 0 0 0 0 0	0 2 0 3 0 0 0 0 0 0	0 3 0 2 0 0 0 0 0	0401000000	0400000000	0500000000	0600000000	120000000	0 1 0 0 0 0 0 0 0	0100000000	0 1 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0
MEAN	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0.2

PERCENTAGE OF DATA VALID - 99.6 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- \* \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

					1000		-							ALIDER SE	-			2017 Vis							
	\$1	TATION	- NE	NO	77066	i	TEMAG	AMI S	<b>JUBU</b> F	IIA Y	SHED					NON	TH - 0	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3	1	0 2	0 2 1	0 1 1	0	0	0 0 1	0	000	0	0	0	0	0	0	0	0-0	0	1	0 1 2	0 1 3	0	1	0	0
5 6 7 8	0 0 0	0 1 0 0	0 0 0	00200	9 0	3 0 1 0	3 0 1 0	20000	000	0 0	0 0 0	0 0 0	0 0 0	0	0 0	0 1 0 9 0	01000	0 1 0 1 0	0 0 0	0 1 0 0	1 0 0	0 0 1 0 0	0 + 0 0	0000	1
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11 12 13	0	0	0 0 0	0000	0000	0	0000	0000		0	0000	000	0000	000	0	0	0000	000	000	0	000	000	0000	0000	0
15 16 17	0	0	0	0	0	0	0 1 0	0	°	000	000	0000	0000	0000	0	0 0 0	0 20 0	0	0 1 0 0	0 1 0 0	0	0 1 0 0	0000	0000	0 1 0 0
19	0	1 0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	6	. 0	0	0	0	0	0
21 22 23 24	000	0	000	0000	0000	0000	0	0000	::::	0 0	0	0	0 0 0	0	0000	0000	0000	00-0	0 - 0	0 1 0	0	0000	0000	0 0 0	0
24 25 26 27			:				•••						000	0	000	000	0000	0000	0	0	000	ŏ		0	
28 29 30	0 6	0 2	0	0	0	0	0 2	0	0	0		0	0	0	0	0	0	0	0	0	002	_	0	5	ŏ
31 MEAN	0	4	0	0	1	0	1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3

PERCENTAGE OF DATA VALID - 95.3 PERCENTAGE OF DATA INVALID - 4.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE \*- \* INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESOURCES BRANCH

	POLI	UTANT	. \$	ULPHI	UR DIO	XIDE								UNITS	- 0.0	DI PA	RT5/M1	LLIO	N						
	STAT	ION -	NE	NO	77066	1	EMAGAM	S	UDBURY	AIRS	HED					MON	TH - N	100	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	000100000	000000000	000000000	0000000000	000-030000	0002030000	0001020000	000000000	0000000000	00000000	0000000000	0000000000	000000000	000000000	000000000	0000000000	00-0000000	0110000000	9 1 0 0 0 0 0 0	0 16 1 0 0 0 0 0 0 0	00000000	1000000	001000000	00+0000000	20000000
11 12 13 14 15 16 17 18 19	0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010000062	0 0 0 0 0 0 0 0 1 1 1	00000000	0000000000	0000000000	000000000	000000000	0000000	000000054	0000000000	000000000	0000000000	0000000	00,0000000	0 0 1 0 0 1 0	0010080020	000000000000000000000000000000000000000	0 0 0 0 13 0 0 4 0	000000000000000000000000000000000000000	0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	030000000	0600010000	0700000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
21 23 24 25 26 27 28 29	000000000	000000000	0000000000	0600000000	0 18 0 0 0 0 0	0300000000	00000000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000	0000	0000003	0 0 0 0 0 0 0 3	000000000	00000000	0000000000	0000000000	000000000	000000000	0000000000	0000000000	0000000000	0000000000	0 0 0 0 0 0
MEAN	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0.4

PERCENTAGE OF DATA VALID - 99.3 PERCENTAGE OF DATA INVALID - 0.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

\* - INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - D DI PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE WONTH - DEC BO STATION - NE NO 77066 TEMAGAMI SUDBURY AIRSHED 15 16 17 18 19 20 21 22 23 24 MEAN B 9 10 11 12 13 14 3 4 6 7 M00-00000 2 3 4 5 6 7 8 9 CO ó 0000-70000 0000-00000-00006 00000-000 0000-0000 0000-0-2000 0 0 0 0 2 ···· 20-000030-0--0000106 3 .... 

PERCENTAGE OF DATA VALID - 98.8

MEAN

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.0

a 0

0.7

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

1 1

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

STATION - NE NO 77066 TEMAGAMI SUBBURY AIRSHED

MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAI	LABLE	
FEB		DATA UNAVAL	LABLE	
MAR		DATA UNAVAI	LABLE	
APR		DATA UNAVAL	LASLE	
YAM	10	0.3	2	12
JUN	30	0.3	1	ь
JUL	31	0.4	2	11
AUG	31	0.4	2	10
SEP	30	0.2	1	6
OCT	30	0.3	Ĩ	9
NOV	30	0.4	2	18
DEC	31	0.7	3	10
YEAR	223	0.4	3	18

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS . O OF PARTS VILLION

STATION - NE NO 77066 TEMAGAMI SUDBURY AIRSHED

MONTH OD TO 05 06 TO 10 11 TO 15 16 TO 20 21 TO 25 26 TO 39 40 TO 49 50 SOVER TOTAL JAN DATA UNAVAILABLE DATA UNAVAILABLE FEB DATA UNAVAILABLE MAR APR DATA UNAVAILABLE c MAY G JUN JUL AUG SEP OCT NOV DEC YEAR 

FREQUENCY DISTRIBUTION BY PERCENTILES

PREQUENCY	PERCENT OF DATA	ION BT	PERCENTICES		FREQUENCY		TRATIONS					ARITH
	VALID	MIN	10	30	50	70	90	95	58	99	XAM	MEAN
	00.0		0.0	0 0	0.0	0.0	0.7	1.8	3.5	5.2	18	0.4

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION MONTH - JUN STATION - NE NO 77067 CHINIGUCHI SUDBURY AIRSHED 24 MEAN 11 12 13 14 HOUR DAY DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
DATA UNAVAILABLE
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DATA UNAVAILABLE 2 3 4 5 6 7 8 9 12 13 14 15 16 17 18 19 20 00.0000000 04-0000000 0-4000000 030-00000 . .... 0 2 22 23 24 25 26 27 28 29 30 ō ō o .0 O ...0 0.3 MEAN 

PERCENTAGE OF DATA VALID - 57.6

PERCENTAGE OF DATA INVALID - 7.4

PERCENTAGE OF DATA UNAVAILABLE - 35.0

- 2. \* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

#### UNITS - O OF PARTS/MILLION

	S	TATION	- NE	NO	77067		CHINIG	IHOUI	SUDE	LURY A	IRSHE	0				::on	TH -	JUL	80						
HOUR	4	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	:6	19	20	21	22	23	24	MEAN
1 2 3 4	0		0	0	0	0	0	000	0	0			DATA	INVAL											
5 6 7 8 9	0000	0000	00000	000000	0 0 0 0	00000	0000	000	0 0	0000	00000	00000	00000	00000	0000	0 0 0	000000	00000	0 8 0 0	005000	004000			0 0 0	0
11 12 13 14 15 16 17 18	00000000000	0003000	0000000000	000000000000000000000000000000000000000	0000100010	0000100010	0 0 0 0 2 1 0 0 1 0	0000-200-0	00000000	0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0	00000000	0 0 0 1 0 0 0 0	000000000000000000000000000000000000000	3000				000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
21 22 23 24 25 26 27 28 29 30	000000000000000000000000000000000000000	00000000	0000000000	0000000000	0 0 0 0 0 0 0 0 0	0000000000	0 0 0 0 0 0 0 0	000000	000000000000000000000000000000000000000	000000000	000000000000000000000000000000000000000	0000000000	0000000000	000000000	000000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0-0:00	000000000000000000000000000000000000000			000000000	000000000	000010000
31 MEAN	0		0	0	0	0	0	0	0	0	1 0	5 0	6 0	10	5 0		••••	0		1	1		0	0	0.2

PERCENTAGE OF DATA VALID - 88.0

PERCENTAGE OF DATA INVALID - 12.0

PERCENTAGE OF DATA UNAVAILABLE - O.C.

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

UNITS - Q.Q1 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - NE NO 77067 CHINIGUCHI SUDBURY AIRSHED 22 9 10 11 12 13 00000 1 2 3 4 5 6 7 8 9 10 000000000000 00000000000 0000000000 0000000000 000000000 0000000000 02016031 000000 00 000000000 000101000 000-0-000 000302700 000 000 00 0000000000 000000 11 12 13 14 15 16 17 18 19 20 -000000000 1000000000 0-00000000 000000 0 21 22 23 24 25 26 27 28 29 30 0000000000 0000000000 000000000 0000-00000 00 00. 000000000 .00000000 00000 0 0 0 0 0 0 0 31 0.3

PERCENTAGE OF DATA VALID - 92.6

PERCENTAGE OF DATA INVALID - 7.4

PERCENTAGE OF DATA UNAVAILABLE . 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

### UNITS - 0.01 PARTS/MILLIGN

	S1	MOITAT	NI	NO	77067	,	CHIN	GUCH	supe	BURY A	IRSH	D				ON	тн -	SEP	80							
DAY	R 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	· ò	17	18	19	20	21	22	23	24	MEAN	
1	0	٥	0		0	0	0			20	8	2	1	0	0	1	0	0	0	0	0	0	0	0	2	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		ŏ	
3	0	0	0	0	0	0	0		0	0	0	0	0	1	1	3	0	0	0	0	1	2	0	0	0	
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19	1	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0			****	Ÿ	
20	0	0	0	0	2	2	3	4	2	1	1	0	0	0	0	0	0	0	0	0						
21													DATA	INVAL	ID -							-	192	_	12	
22 23 24 25 26	0	0	0	0	0	0	000	0	0	0	6	5	2	1	1	0	0	O	0	0	0	0	0	0	- 1	
23	0	0	ō	0	0	0	0	0	0	0		0	0	0	0	0	0	O	0	0	0	0	00000	0	0	
24	0	0	0	0	0	0 6 0 0	0	0	0		0	0	1	0	0	1	1	0	4	4	0	0	0	0	0	
25	0	2	4	6	9	6	1	1	0	2	6	3	1	0	0	0	0	0	0	0	0	0	0	0	2	
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29 30	0	0	0	0		0	0				ő	٥	0	ó	10	ő	ŏ	ő	0	ō	ò	ò	o	ò	0	
30	1	0	0	0	0	0	0	U	0	0	U	U	J	U	0	v	- 80			-		_	-	-	-	
MEAN	0	1	1	- 1	1	0	0	1	1	2	1	1	1	0	0	3	1	1	1	1	0	0	0	1	0.6	

PERCENTAGE OF DATA VALID - 90.6 PERCENTAGE OF DATA INVALID - 9.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESOURCES BRANCH

	PO	LLUTANT	- 5	ULPH	UR DI	OXIDE								UNITS	- 0.	01 PA	RTS/M	ILLIO	N						
	ST	- NOITA	NE	NO	77067		CHINI	GUCHI	SUDE	URY A	IRSHE	D				MON	TH -	OCT	80						
HOUR Day	ï	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6	0 0 0 3 0	0 0 4 0	0000	0	0000	0 0	0000	0 0	0 0 0	0 0 0	0000	0000	DATA	3 0 0 0 1 1 1 1 1 1 1	ID -	0 0 0	000	0 0	000	0	0 1 0	0 0 0	0 1 0	0 1 0	0
8 9 10	••••					••••		••••		0	0			I NVAL		0	0	0	0	0	0	0	0	0	1
11 12 13 14 15 16 17 18 19	000001400	0 0 0 0 0 1 1 0 0	000000000	0 0 0 0 0 1 0 0 0	0000000000	0000000000	0000000000	0000000000	0000000000	000000000	0 0 0 0 0 0 0 0		00000000	000000000	000000000	0000000000	0000100000	00000-000	0 0 0 2 1 1 0 0 0	0 0 0 1 2 1 0 0 0	0 0 0 0 0 0 0	0 0 0 0 1 1 4 0 0 0	0 0 0 0 1 1 1 0 0 0 0	0 0 0 0 0	0 1 0
21 22 23 24 25 26 27 28 29 30	O O O O O O O O O O O O O O O O O O O																								
31												- D	ATA U	4AVAIL	ABLE			-					(148) ·		
MEAN	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.2

PERCENTAGE OF DATA VALID - 55.9

PERCENTAGE OF DATA INVALID . 13.2

PERCENTAGE OF DATA UNAVAILABLE - 30.9

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*--\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

STATION	*	NE	NO	77067	CHINIGUCHI	SUDBURY	AIRSHED

HET SUMMA	RT OF HOURET AND 2-HOURE	Y DATA FOR 1980		
UTANT - S	ULPHUR DIOXIDE	U	NITS - 0.01 PARTS/MI	LLION
ION - NE	NO 77067 CHINIGUCHI	SUDBURY AIRSHED		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN		DATA UNAVAL	LABLE	
FEB		DATA UNAVAI	LABLE	
MAR		DATA UNAVAI	LABLE	
APR		DATA UNAVAI	LABLE	
MAY		DATA UNAVAL	ABLE	
JUN	16	0.3	2	14
JUL	28	0.2	2	12
AUG	29	0.3	3	8
SEP	27	0.6	3	20
OCT	16	0.2	1	10
YEAR	116	0.4	3	20

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GROUP EREQUENCY DISTRIBUTION FOR 1000

MONTHLY GROUP FREQU	ENCY DISTRIBU	TION FOR	1980					
POLLUTANT . SULPHUR	BOIXOIC			U	NITS - 0.0	1 PARTS/MI	LLION	
STATION - NE NO 770	67 CHINIG	UCHI SUDBI	URY AIRSHED					
MONTH 00 TO 05	06 TO 10 11	TO 15 16	5 TO 20 21	TO 25 26	TO 39 40	TO 49 50	GOVER	TOTAL
JAN	DATA UNAVAIL	ABLE						
FEB	DATA UNAVAIL	ABLE						
MAR	DATA UNAVAIL	ABLE						
APR	DATA UNAVAIL	ABLE						
MAY	DATA UNAVAIL	ABLE						
JUN 412	2	1	0	0	0	0	0	415
JUL 649	5	1	٥	0	0	0	0	655
AUG 678	11	0	0	0	0	٥	0	689
SEP 627	24	0	1	0	0	0	0	652
OCT 414	2	0	0	0	0	0	0	416

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES									
	PERCENT					CONCEN	TRATIONS					
	OF DATA				FREQUENCY	DISTR	IBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	77.0	0	0.0	0.0	0.0	0.0	0.6	1.8	4.4	5.7	20	0.4

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	- NE	NO	77075	j	KENNED	Y 5T	NEW	SUDBUI	RY.					NON	TH -	JAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	1	1	1	1	1	1	2	2	5	2	1	1	1	1	1	1	1	1	0	.1	1	0	0	О	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0
3	0	1	1	1	1	1	1	1	1	1	1	1	1			٥	C	1	٥	0	0	1	1	1	1
4	1	0	1	1	1	1	1	1	1	1	1	1		1	2	5	6	10	7	3	2	2	2	2	2
5	1	1	1	1	****	1	1	1	1	1	1	1	2	3	5	4		5	2	6	7	5	4	3	3
6	3	3	4	6	7	6	5	4	4	4	2	2	2	2	1	1	1	1	1	1	1		1	1	3
7	10	1	1	1	2		2	2	3	4	2	1	1	1.	1	1	3	3	3	1	1	1	1	1	3
8	1	1	1	1	1	0	1	0	0 3	0	0	0	1	2	6	5	4	4	2	3	1	1	1	2	2
9	1	1	1	1	1	3	2	6	3	5	1	4	7	6	3	1		٥	0	0	0	0	o	٥	2
10	1	3	2	1	1	2	1	1	0	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	*
1.1	1	1	2	2	2	1	1	1	1	3	1	1	ī	1.	1	2	5	: 1	16	8	8	5	8	1	3
12	1	2	3	1	1	1	1	1	2	1	1	2	2	2	1	1	7	1	1	1	1	2	- 1.	5	2
13	2	2	1		1	1	1	1	1	2	1	2	1	1	4		4	4	4		4	4	2	2	2
14	1		1	,	1	2	2	2	3	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	
15	1	1	1	1	1	1	1	2	1	1	1	1	1	2	3	2	1	1	1	1	1	2	2	1	1.
16	1	2	2	1	1	1	1	- 1	1	1	1	1		1	0	1	1		1	1	1	1	1	1	1
14 15 16 17 18 19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1
18	0	0	0	0	0	٥	0	0	0	0	2	1	٥	1	0	٥	O	0	0	٥	1	- 1	1	1	0
19	1	1	1		1	1	- 1	1	- 1	1	1	1	1	1	1	1	- 1	1	1	1	1	- 1	1	1	- 1
20	1	1	1	1	1	1	- 1	1	1	1	1	1	0	1	0	1	1	1	O	1	1	,	0	1	18
21	1	1	1	1	1	1	1	1	1	1	1	1	2		••••	••••		3	3	2	1	1	1	1	1
21 22 23 24 25 26 27	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	3	1	1
23	1	1	1	1.	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1
24	1	- 1	1		1	1		1	1	1	1	1		- 1	1	1	1	1	1	,	1	1	1	1	1
25	1	1	1		1	2	1	1	2	1	1	٥	1	1	5	2	1	1	1	0 6 6	0	0	0		1
26	1	- 1	1	1	1	1	1	1	1	0	0	0	0	6	0	0	0	٥	2	0	0				
27	1	1	0		0	1	1	1	•	1	0				7	3		3	4	6	5	4	4	4	2
28 29	4	4	2		1	2	1	0	0	0	0	1	- 4	1	1	1	1	12	9	6	1	0	0	0	2
29	0	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	ō	ő	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	•	0	0	o	٥	U
31	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	O	U	Э	U
MEAN	1	1	1		1	1		1	,	1	1	1	1	15	2	1	-1	2	2	2	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 98.7 PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.1

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLI	UTANT	- s	ULPH	UR DIO:	KIDE								UNITS	- 0.	01 PA	RTS/MI	LLIO	N							
	STAT	110N -	NE	NO	77075		KENNEDY	ST	NEW	SUDBL	JRY					MON	тн - р	EB	80							
HOUR	i	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN	
1 2 3 4 5 6 7 8	0 0 1 1 0 0 0 3 1 1 1 1	0 0 1 1 0 1 1 1 1 1	0 0 1 0 1 1 3 1 1 1 1	0 0 1 1 1 1 4 1 1 2	0 0 1 1 1 3 4 2 1 1	0 0 1 1 1 4 4 4 1 1 1 1	0 1 1 5 3 1	0111142112	0 1 1 0 0 3 2 1 1 2	0 0 1 0 3 4 1 1 2	0 1 1 4 4 1 1 4		0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 4	0 1 1 1 0 1 1 2 1 6	0 1 1 0 . 1 1 1 6	0 1 1 0 - 1 1 1 5	0	0 1 1 0 1 1 1 1 1 4	0 1 1 1 1 1 4	0 0 1 1 1 1 3	0 0 3 1 1 1 3	0		0 1 1 1 2 2 1 1 4
11 12 13 14 15 16 17 18 19	2 2 6 1 0 4 1 1 2 1	2 2 7 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 0 1 0 4 2 2	2 2 1 0 1 1 3 1 1	2 2 1 1 0 1 1 1 1 1 2	2 2 1 0 1 1 5 2 2	2 2 1 1 1 1 1 5 3 1	2 1 1 0 1 1 2 3 1	2 1 1 1 0 1 6 1 1 2	1 1 0 1 8 2 2 1	1 1 1 1 1 5 2	1 4 1 1 1 8 1 7, 2	1 1 4 1 1 0 5 1 4 1	: 1 5 1 2 1 6 1 6	7	1  1  1 2 1 1	10011	11133114411	1 1 2 1 1 1 1	4 1 1 4 0 6 1 1 1	22 20 5 1 1 1 1 1	2 1 0 5 0 1 1 1 1	5 1 1 1 1 1 1 1 1	1 3 1 5 1 1 2		2 1 2 1 3 2 2 1
21 22 23 24 25 26 27 28	1 1 1 0 1 0 0	2 2 1 1 1 0 0	1 3 3 1 1 1 0	1 2 1 0 1 1 0 0	1 1 2 0 1 1 0 0	1 1 2 1 1 0 0	0 1 1 1 1 0	161311100	1771000	1 12 2 1 0 0 1 0 0	6 0 8 0 0 1	0 9 1 1 0 3 0	1 2 1 0 2	1 1 0 3 0 0 1	1 1 1 1 0 0 1	1 1 1 1 0 0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 1 1 0 0	2 1 2 1 1 0 0	1 1 0 0 1	1 1 1 0 0 1	1 0 0 1	6 1 1 0 1 1 0 0 1	5 1 1 0 0 1 0 0 1		1 3 2 1 1 1 0 0
MEAN	1	1	13	1	1	1	1	î	1	2	2	2	2	2	2	1	1	4	1	1	1	1	1	1	1.	. 4

PERCENTAGE OF DATA VALID - 98.1 PERCENTAGE OF DATA INVALID - 1.6 PERCENTAGE OF DATA UNAVAILABLE - 0.3

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - G. 3" FARTS/MILLION POLLUTANT - SULPHUR DIOXIDE STATION - NE NO 77075 KENNEDY ST NEW SUDBURY NONTH - MAR 80 22 23 16 17 18 19 20 21 HOUR 10 11 12 13 14 15 1 2 3 4 5 6 7 8 9 12 20010 11 12 13 14 15 16 17 18 19 20 10 30 28 13 0 0 1 0 0 1 2 0 2 2 2 2 1 2 21 22 23 24 25 26 27 28 29 2002110 1 0 1 1 3 21021101 0 10 0 31 0 2 2

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1, \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES SRANCH

	POL	LUTANT	- 5	ULPH	UR DIO	XIDE							)	UNITS	- 0.0	DI PAR	RTS/MI	LLIO	N						
	STA	TION -	NE	NO	77075	K	ENNED	Y 51	NEW	SUDBUR	I¥					MON	TH - 4	PR	80						
HOUN	• 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	21	22	23	24 M	EAN
1 2 3 4 5 6 7	1 0 0 0 0 0	1 0 1 0 0 0 0	01010000	0 1 0 1 0 0 0 0	0 1 0 0 0 0	0 1 0 1 0 0 0	0 1 0 0 0 0	1 1 0 1 4 0 0 0	0 1 0 0 0 0	1 1 0 0 0 0 0	1 1 0 0 0 0 1	1 0 0 0 0 2	3 1 0 0 0	5 3 0 0 0 0	9 1 10 0 0 0	8 0 0 0 0 1	6 1 7 1 0 0 0 1	1 3 1 0 0	1 1 1 1 0 0	0000000	00000	1 0 0 0 0 0 2	10100008	1 0 0 0 0 0 13	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 10 11 12 13 14 15 16	1 0 1 0 0	1 1 0 0 0 0 0	0 1 0 0 3 0	1 1 1 1 4 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 0 0 1 0 2	1 1 1 1 1 0 1 0	1 1001000	1 1 0 1 0 0	2 0 1 1 0 0 0	1 0 1 0 0 0	1 1 0 1 0 0 0	1 1 0 0 5	2013	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 0 0 0 0	2	2 0 1 0 0 6	1 1 0 1 0 0 2	N - 0 N O O	1	0 . 0 0 0 0 2	0 0 0 0 0	0000000	1 : 0
18 19 20	00001 0	0	0	0	0	0 0 0	0	1 1	0 0 1 0	0	0 0	0	0 1	1 1	1	1	0 1 1 2	1 1 2	7	5 1 1	0	0	0 0 0	0	. 1
22 23 24 25 26 27 28 29	0 1 2 1 0 1 2 1 0	3 1 1 2 1 1	1 2 1 0 2 1	2211011	1 1 2 1 1 2 1	1 1 2 2 1 1 4 2 1	1 1 2 2 1 1 7 1 1	10211221	1 4 2 2 1 4 0 12	1 1 9 2 11 1 5 0 6	1 1 5 2 7 1 17 0 3	1 14 1 14 1 3 0	1 6 6 0 2 1 1 7 1	1 5 9 0 2 1 1 20 8	1 4 17 1 3 1 5	33 1 1 1 3 1	23 1 1 1 2 1 1	1 2 7 1 1 1 1 1 1	1 2 2 0 1 1 1	2 2 0 1 2 1 0 .	1 2 2 0 1 2 1 0 1	0 1 3 0 0 2 5 0 2	2 5 0 1 2 7 0 3	5011302	1 2 7 1 2 1 4 2 3
MEAN	1	1	1	1	1	1	1	1	2	2	2	2	1	2	3	2	2	7	1	1	1	1	1	1	1.3

PERCENTAGE OF DATA VALID - 98.9

PERCENTAGE OF DATA INVALID . 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.8

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS . O C! PARTS, MILLION

	51	ATION -	NE	NO	77075	KEN	NEDY :	ST NEW	SUDB	URY	٠				NO.	1н -	MAY	80						
HOUR	1	2	3	4	5	6	7 1	9	10	11	12	13	14	15	tiš	17	18	19	20	21	22	23	24 M	EAN
1	1	1	1	1	1	•		1	1	6	31	28	6		9	2	• • • •	5	2	2	3	4	3	4
2	3	3	2	2	3			1	4	2	1	,	1		1.		1	1	1	1	1	O	1	•
3	1	1	1	0	1	1	1	0		O	1	1	1	1	1	ı	1	1	1		1	1	1	1
4	0	0	0	0	0	0	0 (	0			5	5	2	1	0	0	Ü	٥	0	2	0		0	
5	0	٥	o	0	٥	o I		0	10		3	2	2	5	4	5	1	1	1	1	1	1		2
6	1		1	1	1			) 1			٥	0	5	1 -	o.	2	- 1	1	1	0	0	0	0	
7	0		0	. !			3	! !	1	1	1		1	1	1	1	- 1	1	1		- 1	!		:
	1		1		1	1	0	1	;	- 1	- 1	1			- 1	1	- 1	- 1		1	- 1	- 4	1	:
10	2		1	- !		1	9	. 0	. !	- 1	2	1		1	- 2	1	2	2	2	1	5		2	
10	1	2	3	1	1	2	9	1 1	1	1		1			4		2	2	2	2	2	•	-	•
11	2	2	2	2	2	2	2 :	2 2	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2
12	1	1	1.	2	1	0	2 :	8	20	4	3	5	5	2	- 3	2	5	4	3	3	2	ū		4
13	1	1	0	0	0	٥	0 (	0 0		5	12	1	1	1	٥	٥	0	2	9	1	0	0	0	1
14	0	0	0	- 1	0	0	0 0	0		1		1	1	1	1	1	1	1	1	20	1 1	2		2
15	1		1		1	1	0 (			0	٥	3	1	1	1	1	- 1	1	2	3	7	3	. 1	3
16	1		1	2	1	1	0	1		1	1	1	2	1	1	1	1	4	1	2	1	1		1
17	1	0	0	0	0		0	1 1	1	1	1	1	1	1	- 1	1	1	1	1	1	1	2	1	1
18	- 1	1	2	1	2			2 2	2		3	2	2		2	- 1	2	2	1	1	1	2	- 1	- 2
19	1	1	1	- 1	1		1 1	. 1	1	1	- 1	1	1	1	1	1	1	1	1	1	0	0		1
20	0	0	0	0	0	٥	1 2	3	2	3	18	5	2	2	2	ı	1	1	1	2	2	4	1	2
21	1	1	1	3	2		2 :		5	10	7	21	13	3	2	4	8	6	3	2	1	1	1	4
22	2	1	1	2	1	6 2	9 17		5	8	11	13	7	13	6	7	3	4	4	5	2	2	2	7
23	2	3	3	6	5		2 4	2	2	2	2	13	14	23	35	13	5	4	3	3	2		1	6
24 25	2	4	1	1	2		2	1	1	1	2	1	1	2	2	1	2	5	1	1	1	1	1	2
25		1	1	0	0			0		0	٥	0	0	0		C		0	0	0	0	0	٥	0
26	0	0	0	0			0			• • • •		0	0	1	1	1	1	,	1	1	1	1	1	1
27		••••	1	1	1		0	1 1	1	0	0	٥	0	0	O	0	0	0	0	0	0	0	0	0
28	0	0	1	3	2		2	3	2	14	1	1	1	2	1	2	2	4	8	2	1	1	0	2
29	0	٥	0	0	٥	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
30	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	2
31	2	2	2	1	2	2	1	2	1	1	1	3	8	1	2	1	t	1	1	1	1	1	1	2
MEAN	1	1	1	1	1	1	2 :	2	3	3	4	3	3	3	3	2	2	2	2	2	2	1	1	1.9

PERCENTAGE OF DATA VALID - 98.5

PERCENTAGE OF DATA INVALID - 1.1

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTANT	- \$	ULP	HUR DIO	XIDE							0	UNITS	. 0	01 PA	ATS/M	ILLIO	N							
	STA	TION -	NE	NO	77075		KENNEDY	51	NEW	SUDBU	RY					MON	TH	JUN	80							
HOUR DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	33	23	24 1	KEAN	
1	1	1	1	1	1	1	1	1	,	1		1	3	8	1	1	1	1	1	ij	1	1	1	1	1	
2	1	1	1	1	1	0	1	1	0	1	1	1	1	1	2	9	8	4	6	2	3	2	2	2	2	
3	2	1	2	2	1	2	2	1		2	2	2	2	2	2 2 2	2	2	2	2	2	2	2	2	2	2	
4	2	2	2	2	2	1	1	1	1	1	2	2	1	2	2	2	1	2	2	2	1	1	1	1	2	
5	1	1	1	1	0	1	1	- 1	1	1	3	5	3	2	2	2	1	1	1	1	1	1	1	1	1	
6	1	2	3	2	1	1		1	. 1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	
7	1	1	1	1	1	1	1	2	5	6	9	6	3	2	2	2	1	1	1	2	1	1	1	1	2	
8	1	1	1	0	1	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	2	0	
9	0	0	1	0	1	٥	0	0	0	6 0 0	9	0	1	1	1	- 1	1	٥	1	ĩ	- 1	1	1	1	1	
10	1	1	1	1	1	1	1	1	ì	1	0	0	1	1	1	1	1	o	1	1	0	0	1	0	1	
11	1	1	3	1	1	1		٥	٥	1	1	1	•	1	2	2	2	2	1	1	1	1	1	0	1	
12	0	0	0	0	0	0	2	1	2	9	6	1	3	1	1	1	1	1	1	1	1	1	1	1	1	
13	1	2	2	2	2 2	2	2	1	2	1	2	2	2	2	1	4	3	2	2	2	2	1	2	2	2	
14	1	1	2	2	2	2	2	2			1	1	2	1	- 1	1	1	3	3	2	1	17	2	8	3	
15	1	0	1	3	2	1	1	1	0	0	0	0	0	0	0	1	1	0	ā	ō	- 1	17	0	0	1	
16	0	0	0	0	0	0	0	0	ŏ	0		0	0	0		1	1	1	ō	0	- 1	ō	2	5	1	
17	3	0	3	2	3	4	1	4	3	1	2	Õ	ō	ō	1	3	1	1	ī	ĭ	- 1	1	- 7	ī	2	
18	1	1	1	0	0	0	0	0	ō	1	1	ī	1	1	î	1	1	1	1	i	- i	1	1	1	- 7	
19	1	0	0	1	1	2	1	1	1	1	1	0	5	22	8	16	18	4	9	•	•		- 1	- 1	À	
20	•	ī	ī	1	î	2	1	1	1	••••	1	1	ī	7	1	1	1	1	ī	ī	- 7	1	Ó	ò	1	
21	0	0	0	0	0	0	0	0	1	1	4	2	3	4	22	15	22	14	6	3	2	3	2	2	4	
22	2	1	1	1	1	1	1	1	1	1	1	2	2	2	22	2	2	2	2	3	2	2	2	2	2	
23	2	2	1	1	1	1	1	2	4	2	1	2	2	14	15	1.1	3	5	7	3	3	3	3	4	4	
24	3	4	3	2	2	3	2	3	3	3	4	3	2	4	18	31	1.1	4	3	3	3	3	5	3	5	
25	5	8	7	7	4	3	5	8	19	7	4	5	3	2	2	2	10	2	5 .		3	4	2	3	5	
21 22 23 24 25 26 27 28	3	6	5	2	3	3	2	3	1 p 5	2	3	3	6	2	2	2	2	2	2	1	1	1	7	- 7	3	
27	2	1	1	ī	1	1	1	ō	ő	ō	ō	ī	ŏ	- 7	7	- 1	Ť	- 7	- 7	i	2	2	4	2	ĭ	
28	1	1	1	2	2	2	2	1	1	1	ĩ	1	1	1	i	1	1		1	1	- 7	1	1	- 7	i	
29	1	1	1	- 1	ī	- î	1	1	•	i	1		2	7	5	1	2	2	2	i	- 1	1		- i	2	
30	1	1	1	- 1	1	i	1	1	3	4	3	3	3	2	2	2	2	1	2	ż	i	2	i	2	2	
MEAN	1	1	2	-1	1	1	1	1	2	2	2	2	2	3	3	4	3	2	2	1	1	2	2	2	1.9	

PERCENTAGE OF DATA VALID - 99.2 PERCENTAGE OF DATA INVALID - 0.8

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - 0.31 PERTS, MILLION POLLUTANT - SULPHUR DIOXIDE KENNEDY ST NEW SUDBURY MONTH - JUL STATION - NE NO 77075 HOUR DATA INVALID
DATA INVALID
DATA INVALID
DATA INVALID
DATA INVALID
DATA INVALID
DATA INVALID
DATA INVALID
14 22 : 3 C 00:1 12 13 14 15 16 17 18 19 20 0 0 13 20:30700099 0000-00001 ò o 22 23 24 25 26 27 28 29 30 o ò NVALID 21 3 19 2 0 1 2 0 2 5 2 1 1 3 9 1 0 1 ò 2.2 MEAN

PERCENTAGE OF DATA VALID - 74.1

PERCENTAGE OF DATA INVALID - 22 8

PERCENTAGE OF DATA UNAVAILABLE - 3.

NOTES 1. ----- INDICATES INVALID DATA DUE TO !NSTRUMENTATION FA!LURE

2. -- INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - AUG KENNEDY ST NEW SUDBURY STATION - NE NO 77075 24 MEAN HOUR 2 5 0 0 16 4 000000-0 17 10 6 1 0 7 1 2 0 0 14 0 0 10 1 0000-21 2 2 0 ... :000000001 ū ū 0. 0-00000040 000000000-12 13 14 15 16 17 18 19 20 0-00000000 0-00000000 22 23 24 25 26 27 28 29 30 0000-0000-0 3 1 1 0 8 0 0000. 00040-0000 o 1.4 MEAN

PERCENTAGE OF DATA VALID - 96.5

PERCENTAGE OF DATA INVALID - 3.1

PERCENTAGE OF DATA UNAVAILABLE - 0.4

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

UNITS - O.C. PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH . SEP KENNEDY ST NEW SUDBURY STATION - NE NO 77075 24 MEAN HOUR A . . 01213.0411 00005. 0 1 1 1 1 0 2 1 0 1 2 1 0000-00000 0,00000000 12 13 14 15 16 17 18 19 20 0000.00001 .00000 0000-004 00000005-0 22 23 24 25 26 27 28 29 00. 00. 0-00000000 

PERCENTAGE OF DATA VALID - 97.6

MEAN

PERCENTAGE OF DATA INVALID - 1.8

PERCENTAGE OF DATA UNAVAILABLE . O.B.

o  0.8

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- ... INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - C.C' PARTS/MILLION POLLUTANT - SULPHUR DIOXIDE MONTH - OCT STATION - NE NO 77075 KENNEDY ST NEW SUDBURY 24 MEAN HOUR 00--000000000 -00-000000 00000-0006-1 3 4 5 6 7 8 9 1001720310 0000000002 000 47 10 24 4 21 29 12 13 14 15 16 17 18 19 25 1 0 2 2 0 0 2 0 4 0 0 ó 22 23 24 25 26 27 28 29 30 0.8 MEAN 

PERCENTAGE OF DATA VALID - 98.3

PERCENTAGE OF DATA INVALID - 1.2

PERCENTAGE OF DATA UNAVAILABLE - 0.5

- ... INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE UNITS . D. DI PARTS, MILLION

	STA	TION .	NE	NO	77075	()	KENNEDY	ST	NEW	SUDBUR	44					WON!	H - H	VOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8	000004000	0 0 0 0 7 0 0 0 0	000003000	0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000	00000000	0000001000	0 0 0 0 7 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001001200	0 2 0 0 0 2 1 0 0 0	0 28 1 0 0 4 0	071000090	0 0 0 0 0 0 1 1 0 0	0 2 1 0 0 0 0 1 0 0	06-000000	000000000000000000000000000000000000000	0 0 1 0 0 0 0 0	00-000000	0010000100	0000000000	0010000000	000000000000000000000000000000000000000	0 2 0 0 0 1 1 1 0 0
11 12 13 14 15 16 17 18 19	0 000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 000:40-000	0 0 0 17 0 1 0	0 0 0 0 0 0 0 1 1	0 0 0 0 0 0 1 0 0 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0000000013	0 0 0 0 0 1 1 0 2 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 000000.000	0000000000	0 0000000000000000000000000000000000000	0 0 0 0 0 11 0 0 2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0000000000000000000000000000000000000	0 0 0 0 0 1 0 0 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0004001050	000-000000	0.01010060	0001010030	0 0 1 2 0 0 2 1
21 22 23 24 25 26 27 28 29	0 0 0 0 0 0	030000010	0100000000	0300000	000000000	0000000000	0 0 0 0 0 0 0 0	0000000000	0000000000	0000	0 0 1 0 0 1 1 0 3	0010021004	0010001	0010001	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000040000	0000010000	0000000000	0000110000	0000010010	0000010030	0 0 0 0 1 1 0 0 4 0	0000010030	0 0 0 0 1 1
MEAN	0	0	1	1	0	0	0	0	0	1	0	0	2	1	1	1	1	0	o	0	0	1	1	o	0.5

PERCENTAGE OF DATA VALID - 99.4 PERCENTAGE OF DATA INVALID - 0.3

PERCENTAGE OF DATA UNAVAILABLE - 0.3

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - O OF BARTS/MITTION POLLUTANT - SULPHUR DIOXIDE STATION - NE NO 77075 KENNEDY ST NEW SUDBURY MONTH - DEC 80

HOUR	ŗ	2	3	4	5	6	7	8	9	10	-11	12	13	14	15	16	17	16	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0000000006	000000000000000000000000000000000000000	000000004	00000000	000000000	000000000	0000100000	0000100001	000000000	0 1 0 0 1 0 1	01001000	000000011	4 0 0 1 0 0 0 0 1	000000000	2003003060	1004002041	000000000000000000000000000000000000000	2500001	10014000050	1009000090	100400000	000.0000.0	0 0 0 0 0 7 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000
11 12 13 14 15 16 17 18 19	1 1 0 1 0 0 0 3 0 2	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 1 0 0 0 1	0 2 0 0 0 0 1 0 0 1	200001	1 2 0 0 0 1 0 0 1 1	1 3 0 0 1 0 1 0 0 1	0200611001	0200601001	0 1 0 0 1 0 0 1	0 1 0 0 1	00000	0 0 0 24 0 0 21	00001002	000020000	0 0 0 1 0 0 1 2	000100011	200000000	0 0 0 0 0 1 1 3	010010012	1 0 1 1 1 1	00000	500010000	000000000000000000000000000000000000000	0 2 0 0 2 0 1
21 22 23 24 25 26 27 28 29 30	130000000	1210000000	1200000000	1200000000	1200000-00	1 3 0 0 1 0 0 1 0 0	1200100100	1200000100	1 2 1 0 0 0 1 1 0 0	1 1 1 3 0 0 1 1 0	1010103021	1010401001	1 0 3 0 7 0 1 0 0	1020300100	3020100100	500000000000000000000000000000000000000	20-0000200	2010001200	00000000	~000000000	2010000300	200000100	2000000000	200000000	2 1 1 0 1 0 0 1
31 MEAN	1	1	2	2 0	0	0	5	1	3	1	1	1	2	0	6	3	1	1	0	1	1	0	0	0	2 0.7

PERCENTAGE OF DATA VALID - 97.4 PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE . 1.6

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT . SULPHUR DIOXIDE

UNITS - 0.01 FARTS/MILLION

STATION - NE	NO 77075 KENNEDY ST	NEW SUDBURY		
MONTH	NO OF DAYS	AVERAGE CONCENT	24-HOUR MAXIMUM	MAXIMUM READING
JAN	31	1.3	3	16
FEB	29	1.4	4	15
MAR	31	1,4	6	41
APR	30	1,3	7	33
MAY	31	1.9	2	35
JUN	30	1.9	5	31
JUL	23	2.2	10	51
AUG	31	1.4	В	47
SEP	29	О.В	4	35
ост	31	0.8	7	29
NOV	30	0.5	2	28
DEC	31	0.7	3	25
YEAR	357	1.3	10	51

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

MONTHLY GR	OUP FREQUE	ENCY DISTR	IBUTION FOR	R 1980						
POLLUTANT -	SULPHUR (	MICKIDE				UNITS .	O.O1 PARTS.	MILLION		
STATION -	NE NO 770	075 KE	NNEDY ST N	EW SUDBURY						
MONTH	00 TO 05	06 TO 10	11 TO 15	16 TO 20	21 TO 25	26 TO 39	40 TO 49	50 SOVER	TOTAL	
JAN	710	21	2	1	0	0	0	0	734	
FEB	661	19	3	0	0	0	0	0	683	
MAR	706	24	8	1	1	2	1	0	743	
APR	678	21	8	3	1	1	٥	0	712	
MAY	686	27	11	4	2	з	0	0	733	
JUN	677	22		5	3	1	0	0	714	
JUL	500	20	13	8	5	4	0		551	
AUG	674	14	. 11	8	2	8	1	0	718	
SEP	679	14	. 6	2	1	1	0	0	703	
ост	699	17	, ,	4	3	1	0	0	731	
NOV	699	10	5		0	1	0	0	716	
DEC	707	13	2	0	3	0	0	0	725	
YEAR	8076	222	82	37	21	22	2		8463	
FREQUENCY	DISTRIBUT	ION BY PER	CENTILES							
	PERCENT OF DATA			FREG	CONCE	NTRATIONS RIBUTION.	PERCENT			AR1TH
	VALID	MIN	10	30 50		90	95	98 99	MAX	MEAN
	96.3	0	0.0	0,0 0.	0.7	2.3	4.7	9.8 14,9	51	1.3

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	STA	TION	. NE	NO 7	77079	LO	NG LAKE	DEW (	ROP RD	SUDE	BURY				MON	тн - ,	APR	cs						
HOUR	1	2	3	4	5	6	7 8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 1	MEAN
1 2 3 4 5 6 7 8 9											- CAT. - OAT. - OAT. - DAT. - DAT. - DAT. - CAT. - CAT.	A UNA A UNA A UNA A UNA A UNA A UNA A UNA A UNA	1	3LE -										
11 12 13 14 15 16 17 18 19 20	. 0 1 1 0 0 0 0 0	4 0 0 0 0 0	. 0010000	00010000	000000000000000000000000000000000000000	0 0 0 1 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0	.000000+0	0 0 0 0 0 0 1 0	000000000	- DAT	A UNA 0 0 0 0 0 1 0 0		0 1 0 9 0 26 0	24 0 20 0 1	0 9 0 10 0	1 9 0 15 1 6	0 0 0 0 3 0 9 0 1	0000005-0	0 0 4 0 0 0 0 1 1	003000000000000000000000000000000000000	0-20000-0		0 2 1 3 0 4 0 2
21 22 23 24 25 26 27 28 29 30	0 0 1 0 0 1 3 1 0	0 0 0 0 0 1 1 0 0	0 0 0 0 0 1 0 0	0000010000	0 0 0 0 0 1 1 1 0 0 0	o o	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 8 24 1 2 0	0 0 0 1 1 7 0 1 0	50000133010	13 0 0 0 0 0 1	8 0 0 0 0 1 0 0	2040001000	0 0 5 0 0 12 1 0 0 0 4	9 0 7 0 0 17 0 0 0	9 0 0 0 0 1 1 1 0 0	17 0 0 1 0 0 1 0 2	4 1 0 1 0 0 1 1 1 0 9	1 0 0 0 1 15 8 0 1	1 0 0 0 0 0 23 6 0	000000000000000000000000000000000000000	0000000000	00000000000	3010026201
29 30 Mean				0			0 0		o	0	٥	0	0	0	o	0	2	9	1	ō	0		0	0 0

PERCENTAGE OF DATA VALID - 61.7 PERCENTAGE OF DATA INVALID - 0.4

PERCENTAGE OF DATA UNAVAILABLE - 37.9

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

# ONTARIO MINISTRY OF THE ENVIRONMENT . AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE													UNITS	٠ ،	O1 PA	RTS/M	ILLIO	N						
	STA	TION -	NE	NO :	77079		LONG	LAKE	DEW DE	OP RD	SUDE	BURY				MON	тн - 1	YAN	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	3 3 0 1 0 1 0	1 3 1 4 0 0 6 0	1 2 1 1 0 1 0 3 0	2 1 1 0 0 1 0 7 0	1 1 0 8 0 4 0	1 1 0 0 2 2 1 0	1 1 0 0 2 2 1 0	1110027	031002620	0 5 1 0 1 11 3 8 0	0 8 1 0 2 7 1 12 0 0	0 5 1 0 18 0 1 7	02100000	15 0 0 11	2 2 1 0 1 0 0 3 0 0	6 0 1 0 1 1 5 8	0 1 0 1 3 0 0	6 0 1 7 3 2 0 0 0	1 1 0 0 0 0 0	1 0 0	2 3 1 2 2 0 0 1 0	1 0 0 0 0 0 0	1 0 1 0 0 0	1 0 1 0 0 0 0	2 1 1 3 2 1 3 0 0
10 11 12 13 14 15 16 17 18 19 20	0 00000	0 0 0 0	0 0 0 0 0	0 00000	0 0 0 0 0	00000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 19	0 0 3 5 -	0 0 1 3 .	- DAT	0010	O O O O O O O O O O O O O O O O O O O	0 0 0 8 8 8 8 8 8 8 8 8 8 8		0 0 5	0 0 6 :	0 0 15	0 0 0 4 .	0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 :
21 22 23 24 25 26 27 28 29												· DAT · DAT · DAT · DAT · DAT · DAT · DAT · DAT	A UNA UNA UNA UNA UNA	AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA	BLE BLE BLE BLE BLE BLE BLE BLE	***									
31							,	,	2	3	3	- DAT	A UF	AVAILA	1015		,	2	1	,	,	0	0	0	1.4
MEAN	1	1	1	1	1	1	- 3	,	2	3	3	5	- 2	3		•		•			2	•		-	

PERCENTAGE OF DATA VALID - 45.6 PERCENTAGE OF DATA INVALID - 0.5

PERCENTAGE OF DATA UNAVAILABLE - 53.9

- .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIGXIDE

UNITS - 0.01 PARTS/MILLION

	51	ATION	• •	NE NO	77079	9	LONG	LAKE	DEM D	ROP RD	SUD	BURY				7.OV	TH .	JLN	80						
HOUR	1.	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8 9	0 0 2 0 2	 0 2 0	0 1 0 1		. 0	0 0 0	. 00	0000	0 0 2 12 5 0	0 0 13 13 0	005410	- DA	TA U	NAVAIL NAVAIL NAVAIL NAVAIL O 1 5 3	ASLE	•	 0 0 2 0	 0 8 0 3	0 0 10 0 5	0000	0 0 2 0 0 3	002021	0 0 1 0	002010	0 1 3 1
11 12 13	0	0	0	0	0	0	0	12	14		. 2		DATA	7 I NVAL	ID -	?	3	o	0	0		0	0		3
15 16 17 18 19 20	0 0 0 0	00001	0 0 1 0 0	2	0 0 0	0 0 0 0 10	0000	0000	00004	0 9 0 24 0	0 21 0 27 0	0 14 0 19 0	0 17 0 29 0	0 18 0 42 0	0 8 0 14 0 1	0 4 0 1	0 0 0 0 1	040006	0 0 0 0 2	00005	0 0 0 0 3	00001	0000	0000	0 4 0 7 0 2
21 22 23 24 25 26	••••	•									•		DATA	O INVAL INVAL INVAL	ID -	<del>.</del> ;	, 7 3				0	0 0	0 0	0 0	0
26 27 28 29 30	0	0	0	1	1	,	1	2	2	2	3		DATA	3 I NVAL I NVAL I NVAL	ID -	3	3	6	3	2	3	1	1	1	2

PERCENTAGE OF DATA VALID - 50.8

PERCENTAGE OF DATA INVALID . 34.9

4 4 3

PERCENTAGE OF DATA UNAVAILABLE - 14.3

2 1 2 1 1 1 0 0 0

1.7

NOTES 1. "\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. \*-\* INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

UNITS - 0.01 PARTS/MILLIGN POLLUTANT - SULPHUR DIOXIDE STATION . NE NO 77079 LONG LAKE DEW DROP RD SUDBURY MONTH - JUL 80 HOUR 16 17 21 22 23 24 MEAN 10 12 13 14 15 18 19 20 DATA INVALID DATA INVALID DATA INVALID 1 2 3 4 5 6 7 8 9 10 DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID DATA INVALID 11 12 13 14 15 16 17 18 19 20 DATA INVALID 0000 0000 0010 0 0 0 1 0 3 0 4 1 0 2 2 0 0 0 0 2 0 0 ò ò ò ò ò ò 0 6 2 5200000 2230031 21 22 23 24 25 26 27 28 29 3 12 2 0 0 6 1 17 2 14 0 0 2 0 2 3 3 4 2 21 2 .000000 00001 0 0 00000 0001 13 12 0 0 30 0 0 0 0 0 0 2 2 31 t 1 0 0 0 0 1 2 2 2 3 3 3 3 2 . 1.5 MEAN ٥ 2 2 2 2 2 0 ٥ 1

PERCENTAGE OF DATA VALID - 46.4

PERCENTAGE OF DATA INVALID - 53.6

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

#### .....

														1000 000			,	0.00							
	STA	TION -	NE	NO	77079	L	ONG	LAKE	DEW D	ROP RI	D SUD	BURY				CONT	н - 1	AUG	80						
HOUR	Ť	2	3	4	5	6	7	8	9	10	Ü	12	13	14	15	16	17	18	19	30	21	22	23	24 %	EAN
1 2 3 4 5 6 7 8 9	2 1 0 0 0 1 1 0 0 0	2 1 0 0 0 1 1 0 0 0	1 0 0 0 1 0 0 0 0	1 1 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	110000000	1 0 0 0 0 0 1 0	1 1 0 1 0 0 0 0 0	1 0 2 1 1 1 0 0 0	2 2 1 2 1 2 1 0 20 0	3 2 2 2 2 2 1 0 31	3 2 1 2 3 2 0 17	3 2 2 3 2 3 2 3 16 1	4 2 2 2 2 3 2 0 3	2 2 2 2 3 0 6 1	3 2 2 3 3 4 4 0 4 1	3 1 2 2 3 4 0 7	2 3 3 4 0 1 1	2 1 2 2 3	2 1 1 1 2 2 2 0 1 0	1 1 1 2 1 0 0 0	2 1 0 1 2 1 0 0 0	1 0 0 0 0	1 0 0 0 0	1 1 2 1 0 5 0
11 12 13 14 15 16 17 18 19	000000000	0000050000	0000030000	0 0 0 0 0 0 0	000000000	010060000	010000000	1000010000	1003000	1 0 0 22 0 0 0	1 1 1 7 1 1 0 2 2	1 1 2 1 1 0 2 3	2001011195	0 2 0 1 15 5	1 0 1 1 2 0 1 5 5	1 1 2 0 1 4 5	04 31 0 20 1 4 5	0 9 0 1 0 2 0 1 2 4	0 1 0 1 5 2 0 1 2 4	0 0 0 0 12 1 0 1 1 2	0 0 0 0 0 1 1 2	0000001	0 1 0 0 0 0 0 0 1	0 0 0 0 0 0 1	1 0 0 4 1 0 0 2 2
21 22 23 24 25 26 27 28 29 30	2 2 10 1 1 2 2 0 0 0	2 2 2 0 1 2 1 1 0 0 0	1 2 1 0 1 2 14 0 0 0	1 2 1 0 1 2 3 0 0 0	1 2 1 0 1 2 7 0 0 1	1 0 0 2 3 0 0 1	1 1 0 1 2 6 0 0 1	1 1 0 1 2 5 0 0 1	221001	2 5 1 2 2 2 1 0 2	2 7 2 3 2 5 1 0 2	4 4 8 3 3 2 0 1 0 3	3 9 9 3 4 3 2 0 3	4 6 17 3 4 3 8 2 0 4	4 8 25 3 4 3 4 2 0 4	4 10 3 2 4 3 18 2 0 4	3542432203	3 3 3 3 0 1 0 2	2 3 2 2 7 1 0 2	2 2 0 0 0 2	2 1 1 1 2 2 0 0 0 2	2 2 0 0 0 2	2 2 0 0 1	1 2 1 0 0 0 1	2 3 6 1 2 2 4 1 0 2
31	1	1	1	1	1	11	1	1	1	3		••••			3	3	3	2	2	2	1	1	1	0	1.6
MEAN	1	1	1	1	1	<i>y</i> :	1	1	1	3	3	3	4	3	3	3	2	2	2	1	1			J	1.0

PERCENTAGE OF DATA VALID - 99.1

PERCENTAGE OF DATA INVALID . 0.9

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. .. INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION MONTH . SEP 80 STATION - NE NO 77079 LONG LAKE DEW DROP RD SUDBURY 20 24 MEAN 9 10 11 HOUR 12 1 2 3 4 5 6 7 8 9 10 0 0 0 ò ò 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 C 4 0 12 1 0 1 13 14 0 35 1 3 5501 1.3 3 3 1 MEAN 3

PERCENTAGE OF DATA VALID - 87.6

PERCENTAGE OF DATA INVALID - 12.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

2. "-" INDICATES DATA IS UNAVAILABLE

3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0 OF PARTS, MILLION

	PU	LLUIA	N: -	SULP	HUH U	OXIDE								0141.3	U										
	ST	ATION		NE NO	77079	•	LONG	LAKE	DEW C	ROP F	D SUC	BURY				SON	TH -	OCT	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
													••••	0	0	0	C	0	0	0	0	0	0	0	*****
ż	0	0	0	0	0	0	0	0	3	12	0	0	C	0	C	0	0		0	0	0	0	0	0	1
3	ō	ō	ŏ			0	2	4	4	1	2	2	5	3	3	2	1		0	0	0	2	1	1	1
Ā	0	ŏ				ō	ō	0	0	0	0	0	0	0	0	3	ü	ن 9	600	0	0	0000	0	0	0
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	0 0 0 2	0	0000	ŏ		0	000	0	0	0 0 6 8	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
7	õ	ŏ	ŏ	1		ō	o	ō	õ	0	1	2	1	1	1	1	1	1	0	0	0		0	0	
á	ō	ŏ	õ	o		ō	0	ō	ō	6	7	4		3	1	0	1	1		5	0	2	0	2	2
9	2	- 7	õ	ŏ	0	0	0	ō	ō	8	13	8	3	4	3	4	2	1	0	0	0	0	0	0	2
10	ō	o	ŏ			ŏ	ō		ō	0	0	0	0	0	0	0	0							••••	0
11	-	.50											DATA	INVALI INVALI	D -	21	_	_		120				•	
13	0	0	0	0	1	0	2	2	1	1	3	٥			0	٥	0	0	٥	0	0	٥	0	. 0	
14	0	0	0										• • • •		• • •					****			••••	••••	
15														INVALI											
16														INVALI											
17														INVALI											
18														! NVAL!											
19														INVALI											
20													200,000	INVALI											
21														INVALI	D -			0	0	٥	0	0	0	0	
22	••••						••••				••••			0	٠	0	1	ő	0	ő	0	ő	ŏ	ő	0
23	0	0	0			٥	0	٥	11	!	0	٥	0	0			1.00						****		*****
24	0	0	0	0	0								0.74	INVALI			* ***								
25														INVALI											
26													UAIA	INVALI							0	0	0	0	*****
27	••••		****		••••						0	0	0	0	0	0	0	0	0	0		5	1	o	0
28	2	1	1	0		0	0	0	0	2	3				1	ŏ	ő	ő	ő	ō	0	ō	0	0	2
29	0	0	0	0		0	0	1		ő	0	0			ò	Ö	ŏ			ŏ	o	ŏ	ŏ	0	0
30	0	0	0	0	. 0	U	Ų	U	U	U	v	U	U	·	U			(45)	=	_		-	-		
31	0	0	0	0	0	0	0	0	0	0	0	0	0	D	0	O	0	0	0	0	0	0	o	0	
MEAN	0	0	C	0	0	0	0	1	1	2	2	2	i	1	1	0	1	ī	0	1	0	1	0	0	0.6
PERCE	NTAGE	OF 04	LTA V	ALID	- 51.	5		PERC	ENTAG	E OF	DATA	INVAL	10 -	48.5		PI	ERCEN	TAGE	OF DA	TA UNA	AVAIL	ABLE	0.	0	

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POLLUTANT - SULPHUR DIOXIDE													UNITS	• 0.0	1 PAR	RTS/MI	LLIO	N						
	ST	ATION -	NE	NO.	77079	•	LONG	LAKE	DEW D	ROP RD	SUD	BURY				MON	th - 1	VOV	80						
HOUR DAY	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1 2 3 4 5 6 7 8	00000000	000000000	00000000	00000100	0 0 0 0 0 1 0 0	00000-00	00000000	00000000	0	00000000	000000000	0 0 0 0 0 1 1 0	000000110	00000000	000000000	000000000	00000000	00000000	000000000	00000000	00000001	00000000	00000000	00000000	000000
10 11 12 13 14 15 16 17 18		0000	0 0 0 0 0 0	0000000				00000	00000	0 0 0 0 0 1 0	0 000010	0 0 0 0 0 0 0 0	0 01000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 E E BLE	•	0 000000	0 000000	0 000000	00000				00000	0 0 0 0 0 0
20 21 22 23 24 25 26 27 28 29 30												- DAT	4 UN 4 UN 4 UN 4 UN 4 UN 4 UN 4 UN 4 UN	AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA AVAILA	BLE BLE BLE BLE BLE BLE BLE										
MEAN	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

PERCENTAGE OF DATA VALID - 54.9 PERCENTAGE OF DATA INVALID - 1.8

PERCENTAGE OF DATA UNAVAILABLE - 43.3

- 2. "-" INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOUPLY AND 2-HOURLY DATA FOR 1980

17

150

POLLUTANT - SULPHUR DIOXIDE

OCT

VCM

YEAR

UNITS - 0 01 PARTS/MILLION

55

STATION -	NE NO	77079	LONG LAKE	DEW DROP RO	SUDBURY		
MONTH		NO 01	FDAYS	AVERA	IGE CONCENT	24 - HOUR YAX I NUM	MAXIMUM READING
JAN					DATA UNAVAL	LABLE	
FEB					DATA UNAVAI	LABLE	
MAR					DATA UNAVAI	LABLE	
APR			18		1.4	6	26
MAY			14		1.4	4	32
JUN			15		1.7	7	42
JUL			14		1.5	5	47
AUG			31		1.6	6	31
SEP			26		1.3	6	55

0.0

1.2

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

### MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT .	SULPHUR D	IOXIDE			U	NITS - 0.01	PARTS/MILL	ION		
STATION -	NE NO 770	79 LONG	LAKE DEW DR	OP RD SUDBI	JRY	*				
MONTH	00 TO 05	06 TO 10 1	1 TO 15 16	TO 20 21	TO 25 2	5 TO 39 40	10 49 50	SCVER	TOTAL	
JAN		DATA UNAVA	LABLE							
FEB		DATA UNAVAI	LABLE							
MAR		DATA UNAVAI	LABLE							
APR	408	15	12	5	3	1	0	0	444	
MAY	312	17	7	2	0	1	0	0	339	
JUN	337	14	7	3	2	2	1	O	366	
JUL	330	6	5	1	1	3	1	0	345	
AUG	705	18	4	6	2	2	0	0	737	
SEP	610	10	6	0	٥	4	0	1	631	
OCT	372	8	2	1	٥	0	0	0	383	
NOV	395	0	٥	0	0	0	0	0	395	
YEAR	3469	88	43	18	8	11	2		3640	
FREQUENCY	DISTRIBUTE PERCENT	ON BY PERCEN	TILES		CONCENTR	ATIONS				*
	OF DATA	MIN	10 30	FREQUENC'	7 DISTRIB			99	MAX	MEAN
	62.2		0.0	0.0	0.5	2.4 4.8	11.2	16.3	55	1.2

POLLUTANT - SULPHUR DIOXIDE UNITS - C.JI PARTS/MILLION STATION - NE NO 77092 LAURENT HOSP 41 RAMSEY LAKE RD. SUDBURY MONTH - JUL 80

HOUR 10 11 19 20 24 MEAN 000-000 0-0000 -00000 -00000 9 10 0 0 1 12 13 14 15 16 17 18 19 20 00000-00000 00-0000000 00000-00000 00000-2000000+ -00-0000 0 0 17 22 23 24 25 26 27 28 29 000-0000 0.5

PERCENTAGE OF DATA VALID - 84.1

PERCENTAGE OF DATA INVALID - 3.0

PERCENTAGE OF DATA UNAVAILABLE - 12.9

a o

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- \*- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT - SULPHUR DIOXIDE UNITS - 0.01 PARTS/MILLION LAURENT HOSP 41 RAMSEY LAKE RD. SUDBURY STATION - NE NO 77092 MONTH - AUG HOUR 24 MEAN 2 3 4 5 6 7 8 9 0 0 3 34 3 1 0 0 0 0200--ò 12 13 14 15 16 17 18 19 320000-000 22-0000000 --00000000 \*\*\*\*\*\*\*\* - 204000000 -40000000 M0000000 0 0 0 0 37 0 22 23 24 25 26 27 28 29 30 0 21 11 20 50000 00000-0000 000000-000 000-004000 0-20000000 0.8 MEAN

PERCENTAGE OF DATA VALID . 97.2

PERCENTAGE OF DATA INVALID - 0.9

PERCENTAGE OF DATA UNAVAILABLE . 1.9

- -- INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXICE

UNITS + G.C. PARTS, WILLION

					2012					9.5															
	STA	TION -	NE	NO	77092	Ļ	AURENT	HOSP	41	RAMSE	Y LA	E RD	SUDE	URY		VON	тн - :	EP	80						
HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1	0	0	0	0	0	0	0	0	0	1	1	C	٥	0	٥	٥	٥	2	0	0	0	0	C	0	0
2	0	0	0	0	0	0	1	0	0	0	0	0	3	5	2	O		٥	0	0	0	0	1	0	1
3	0		0	0	0	0	0	0	0	20	16	5	2	3	1	2	1	2	0	0	0	0	0	0	2
4	0	0	0	0	0	0	0	٥	0	0	1	0	0	0	0	0	0	C	1	1	0	٥	0	•	0
5	0	0	0	0	0	0	0	0	0	0	0	0	1000		2	4	5	0	0	0	٥	0	0	1	1
6	1	1	0	0	0	0	0	0	0	3	3	17	15	•	0	1	2	٥	0	0	0	0	0	0	2
7	1	1	1	0	0	3	2	1	0	0	0	3	4	3	3	5	14	9	0	0	0	0	1	0	2
8	1	0	0	0	0	0	0	0	0	0	0	1	1	8	13	5	2	J	0	٥	0	o	0	0	2
9	0	0	0	0	٥	0	0	0	0	0	1	0	0	0	O	0	1	0	0	0	0	1	1	1	٥
10	1	0	1	0	1	1	o	1	1	1	0	*	0	2	2	5	1	4	2	2	٥	0	0	0	
11	0	1	0	1	2	1	4	5		6	2	16	15	12	1	0	0	0	0	0	0	0	٥	0	3
12	0	0	0	2	1	1	0	0	0	0	0	0	0	0	Ü	1	1	1	1	1	1	1	0		
13	0	0	0	0	0	0	0	0	0		0	0	0	0	. 0	0	0	0	0	0	٥	0	5	13	- 4
14 15 16	1	0	0	0	0	O	0	0	0	1	2	2	1	0	0	0	0	0	o	0	0	0	0	o	0
15	0	0	0	1	1	1	1	1	٥	3	6	6	7	3	2		0	0	0	٥	0	٥	0	0	,
16	0	0	0	0	٥	0	0	0		0	0	٥	0	0	0	0	0	0	0	0	0	1	0	õ	٠
17	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	Ş	2	5	4	3	1	1	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	2	0	0	1	0	0	0	٥	0	0	0	0	•	4	- 1	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	2		0	2	3	0	0	0	0	0	U	U	U
21	0	2	0	0	0	0	0	0	000	0	0	0	0	2	0	4	8	2	7	1	1	0	0	٥	1
22 23 24 25 26	0	0	0	0	0	0	Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
23	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
24	0	0	0	0	0	٥	0	0	0	1	O	1	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	O	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0			٠
27 28	1	0	0	0	0	00	0	0	0	0	0	0	0	0	- 1	1	4	0	12	4	0	1	5	٥	- 2
28	0	0	0	1	a	0	0	0	0	0	0	0	5	33	31	4	3	0	0	8	15	12		1	2
29	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	8	11	,	1	4	2	5	D	0	0	0	0	0	U	J	,
MEAN	0	0	0	0	0	0	0	0	0	1	1	2	2	3	2	1	1	1	1	1	1	1	1	7	U. 9

PERCENTAGE OF DATA VALID - 99.9

PERCENTAGE OF DATA INVALID . 0.1

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

POLLUTANT . SULPHUR DIOXIDE UNITS - 0 01 PARTS/MILLION LAURENT HOSP 41 RAMSEY LAKE RD. SUDBURY MONTH . OCT 80 STATION - NE NO 77092 10 13 16 17 18 19 20 21 22 23 24 MEAN HOUR 12 6 00000101010 0 1 0 1 0100101001 0001 0 1 0 1 0101 00000000000 1 2 3 4 5 6 7 8 9 10 0201000011 02000-0 000 ò 0 11 12 13 14 15 16 17 18 19 20 000 0 0000 0001 0000070001 0000000001 000000000 N0000-0000 000 0000040000 0000000000 0000040000 NO00000000 000-16-0000 13 0 0 0 0 0 20 0 0 0 1 2200401 18 1 0 0 2 1 13 0 0 0 3 0065 21 22 23 24 25 26 27 28 29 30 2210000 -000000 0000000 0000031 0000-10-0000000 0007 0 19 1 0 0 0 31 .... 0 0 0 0 0 0 0.9 MEAN 0 2 1 2 2 0

PERCENTAGE OF DATA VALID - 97.6

PERCENTAGE OF DATA INVALID - 2.4

PERCENTAGE OF DATA UNAVAILABLE - 0.0

- 2. "." INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.01 PARTS/MILLION

	PC	LLUTA	INT .	SULP	HUR D	OXIDE	E							OMIT:	5 . 0	.01 -7	1 × 3, 6	ILLIO							
	SI	ATION	E : 1	NE NO	77092	2	LAURE	NT HO!	P 41	RAMS	EY LA	KE R	). <b>\$</b> UDE	BURY		#: Or	• mTw	NOV	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
•		0	4	0	0	0	0	1	0	0	0	0	0	0	0	٥	٥	0	0	0	0	0	0	0	0
9		ō	0	ō	ō	ŏ	ō	0	ō	3	11	14	6	1.1	11	2	٥	0	0	0	0	0	0	0	3
3		ŏ	ŏ	ŏ		ŏ	0	0		ŏ	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0
4		ŏ	ŏ		0	õ	0	0	0000	ō		1	0	0	1	2	Ü	1	0	1	1	0	1	0	٥
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6	0			ō	ŏ	Ó	ō	ō	ŏ	0 0	ō	Ó	ō	0	0	1	1	3	1	0	0	0	0	1	0
7		0	ŏ	ŏ	000	0	19	14	1	1	0 0 7	3	ō	ō		0	0	0	0	0	0	0	0	٥	2
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	ŏ	ŏ	0	ō		0	0	Ó	0	0	0	0	2	5		7	6	6	4	1	1	1	0	٥	2
10	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ō	ō	ō	ō	ō		0	0	0	0	0	0	0	0	٥	0
11	. 0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	G	0	0	0	0	0	0	0	0
12	0	c	1	1	1	1	1	1	1		ç	- 3	ó		- 3	-	- 6	7	٠	٠		ò		0	ò
13	0	0	0	0	0	0	0	0	0	0	1	- 1	9	- 1	1	ő	- 1	- 1	- 1		- 2	ŏ	0	ō	ĩ
14	••••	0	0	0		0	0		0	2.0	2	1	0	0			ò	÷	- 1	ò	٥	ŏ	ŏ	ŏ	0
15	0	. 0	. 0	0		1	- 1	٥	0	0	0	0	24	0			26	.0	ò	ŏ	0	ŏ	ŏ	ŏ	11
16			****	0		0	1	1	1	1	1	- 2	24	48		-0	0	10	ŏ	ŏ	ŏ	ŏ	õ	ŏ	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	ŏ	0	٠	·	·	ĭ	ĭ	ŏ
18	0	0	0	0	0	٥	0	0	0	0	0	0	DATA			U	v	U		1	- 1				•
19	2000		-	nen samuel n													0	0	0	0	0	0	0	0	
20	••••		••••	****													-				-		-		
21					****							0	0	0	0	0	****	0	0	0	٥	0	6	2	*****
23	3	8	3	0	0	٥	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	. 0	0	0	1
23	0	0					****	****	• • • •		••••	****			****	• • • •		••••			••••	-	• • • •	••••	
24									• • • •						0	0	0	0	o	0	0	0	0	0	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	0	0	ŏ
26	****	0	0	0		0	0	1		1	0	1	1	1	1	2	0	٥	00	. 0	0	0	ŏ	ŏ	Š
27		0	0	0	0	00	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1	2	o o
28	****	0		0		0	0	0	0	0	0	0		2	0			0	0	0	. 0	0	ò	0	٠
29		1	1	1	1	2		0	1	2	4	2	0	2	2		3	0	1	1	0	0	0	0	à
30	0	0	0	0	0	0	0	٥	0	0	o	٥	0	0	-	-	0	٥	0	0	0	0	U	-	
MEAN	0	0	0	0	0	0	1	1	0	0	1	1	3	4	4	3	2	1	1	0	0	0	0	٥	1.0

PERCENTAGE OF DATA VALID - 85.3 PERCENTAGE OF DATA INVALID - 14.7

PERCENTAGE OF DATA UNAVAILABLE - 0.0

NOTES 1. \*\*\*\*\* INDICATES INVALID DATA DUE TO INSTRUMENTATION FAILURE

- 2. .. INDICATES DATA IS UNAVAILABLE
- 3. \*\*\*\*\*\* INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

### ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESORCES BRANCH

	POL	LUTAN	r - :	SULPHU	R DIO	XIDE							ı	INTTS	- 0.0	1 PAF	TS/MI	LLIO	N						
	STA	TION	- NE	E NO 1	77092		AURENT	HOSP	41	RAMSE	Y LAK	E RD	SUDE	PY		MONT	тн - с	EC	80						
HOUR	1	2	3	4	5	6	7	8	9	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24 M	EAN
1 2 3 4 5 6 7 8 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-00000006	100000000	00000000	0000000000	0000000000	000000000000000000000000000000000000000	1000000000	1000000000	0100000000	0100000000	5000000000	100000000	0000000000	0 0 0 1 0 0 1 18 0	20030000000	0 0 4 0 0 6 3 3	000800400102	0 0 0 8 0 0 1 0 25	0005000180	0 0 0 0 1 6 0	0 0 0 1 0 6 1	0000001061	000001061	1 0 0 1 0 5 1
11 12 13 14 15 16 17 18 19	1 0 0	1 0 0 0 1	1 6 0 0 1 0 0 2	1 4 1 0 0 0 2 0 0 2	2 4 1 0 0 0 1 0 0 2	3 4 1 0 0 1 2 0 2 2	4 4 1 0 0 1 2 0 0 2	1 4 1 0 1 1 3 0 0 1	1 2 1 0 2 1 3 0 1 1	1 2 0 2 3 1 2 0 0 1	8 1 0 1 4 1 1 0 2	1 1 2 0 1 0 3 3	5 1 1 0 5 0 0 0 1 2	5 0 1 0 20 0 0 0	100000	0 0 0 0 0 0 0	3 1 0 0	2 0 0 3 1 2 0 0 0	2 6 0 1 1 0 3	2 7 0 1 0 1 0 0 1 1	4 1 0 0 0 0	00000410	4 1 0 0 1 0 6	4 1 0 0 0 1 0 1 1 0	3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
21 22 23 24 25 26 27 28 29	000000000	010000000	010010000	1 0 0 1 0 0 0 0 0	000000000000000000000000000000000000000	3 1 0 0 1 0 0 1 0 0	4100000100	4100011100	1 1 0 0 0 0 2 1 0 0	2010103100	20100002001	4010001004	3010001005	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000	0 0 0 0 0 1 0 0 0 1 2	0010001001	1000000	0 0 0 0 1 0 0 4	0010001104	0010001104	0 0 0 0 0 1 0 1	0 0 0 0 0 1	000000000000000000000000000000000000000	1 0 0 0 1 0 0 3
31	1	1	,	1	1	1	1	1	1	1	1	31	٥	0	0	1	0	0	0	0	0	0	0	0	t
MEAN	0	1	1	-1	۰	1	1	1	1	1	1	1	1	2	2	2	1	1	2	1	1	1	î	1	0.9

PERCENTAGE OF DATA VALID - 98.9 PERCENTAGE OF DATA INVALID - 1.1 PERCENTAGE OF DATA UNAVAILABLE - 0.0

- --- INDICATES DATA IS UNAVAILABLE
- 3. ----- INDICATES LESS THAN 2/3 VALID DATA FOR DAILY MEAN IN ONE DAY

MONTHLY SUMMARY OF HOURLY AND 2-HOURLY DATA FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.0: PARTS/MILLION

- MOITAT	NE NO	77092		LAURENT	HOSP 41	RAMSEY LAKE R	C. SUDBURY				
MONT	н	NO	OF	DAYS		AVERAGE CONCE	NT 2	4 - HOU 9	MAXIMUM	MAXIMUM	READING
JA	N					DATA	UNAVAILA	BLE			
FE	В					DATA	UNAVAILA	BLE			
MA	R					DATA	UNAVAILA	BLE			
AP	R					DATA	UNAVAILA	BLE	•		
MA	Y					DATA	UNAVAILA	BLE			
· JU	N					DATA	LNAVAILA	BLE			
JU	L		24	4		0.5			4	ĭ	7
AU	G		30	3		0.8			5	3	19
SE	P		30	Ó		0.9		,	5	3	3
oc	T		3	l.		0.9		* 9	5	2	2
NO	v		2	5		1.0		1	1	6	10
DE	С		3	1		0.9		,	5	2	15
YEA	R		17	1		0.8		1	1	6	0

# ONTARIO MINISTRY OF THE ENVIRONMENT - AIR RESCREES BRANCH

MONTHLY GROUP FREQUENCY DISTRIBUTION FOR 1980

POLLUTANT - SULPHUR DIOXIDE

UNITS - 0.0: PARTS/MILLION

STATION -	NE NO	77092	LAURENT	HOSP	41	RAMSEY	LAKE	RD. SUDBURY

ATION -	NE	NO	7709	2		LAU	RENT	HC	SP	41	RAM	SEY	LAK	E R	D. SU	BU	ŖΥ								
MONTH	00	TO	05	06	to	10	11	τo	15	16	5 TO	20	21	10	25	26	TO	39	40	TO	49	50	SCVER	TOTAL	
MAL				DATA	A L	NAV	AILA	816	Ė																
FEB				DAT	A L	NAV	AILA	BLE																	
MAR				DAT	4 (	NAV	AILA	BLE																	
APR				DAT	4 (	NAV	AILA	BLE																	
MAY				DAT	A L	VANI	AILA	BLE																	
JUN				DAT	A	VAN	AILA	BLE																	
JUL			509			11			4			2			٥			0			0		0	626	
AUG		7	700			14			3			1			1			4			0		0	723	
SEP		•	592			11			10			4			0			2			0		0	719	
OCT		•	596			20			5			4			1			0			0		0	726	
NOV			590			11			5			2			2			1			2		1	614	
DEC		1	711			18			2			4			1			0			0		0	736	

FREQUENCY	DISTRIBUT	ION BY	PERCENTILES									
	OF DATA				FREQUENCY	DISTR	RIBUTION.	PERCENT				ARITH
	VALID	MIN	10	30	50	70	90	95	98	99	MAX	MEAN
	93.8	0	0.0	0.0	0.0	0.0	1.5	3.7	7.8	12,7	60	0.B



YEAR

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